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LAKE ERIE OHIO INTAKE WATER QUALITY
SUMMARY, 1968

Ohio Department of Health
Columbus, Ohio

October 1969

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UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OHIO DISTRICT OFFICE
21929 LORAIN ROAD
FAIRVIEW PARK, OHIO 44126

PB 230 270

LAKE ERIE OHIO INTAKE WATER QUALITY SUMMARY 1968



U.S. DEPARTMENT OF THE INTERIOR
FEDERAL WATER POLLUTION CONTROL ADMINISTRATION



OHIO DEPARTMENT OF HEALTH
BUREAU OF ENVIRONMENTAL HEALTH-DIVISION OF ENGINEERING



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INTRODUCTION

The following is a summary of progress to date on the cooperative water quality surveillance program between the Ohio Department of Health, municipalities, and the Federal Water Pollution Control Administration at 17 Ohio water treatment intakes in Lake Erie (see Fig. 1).

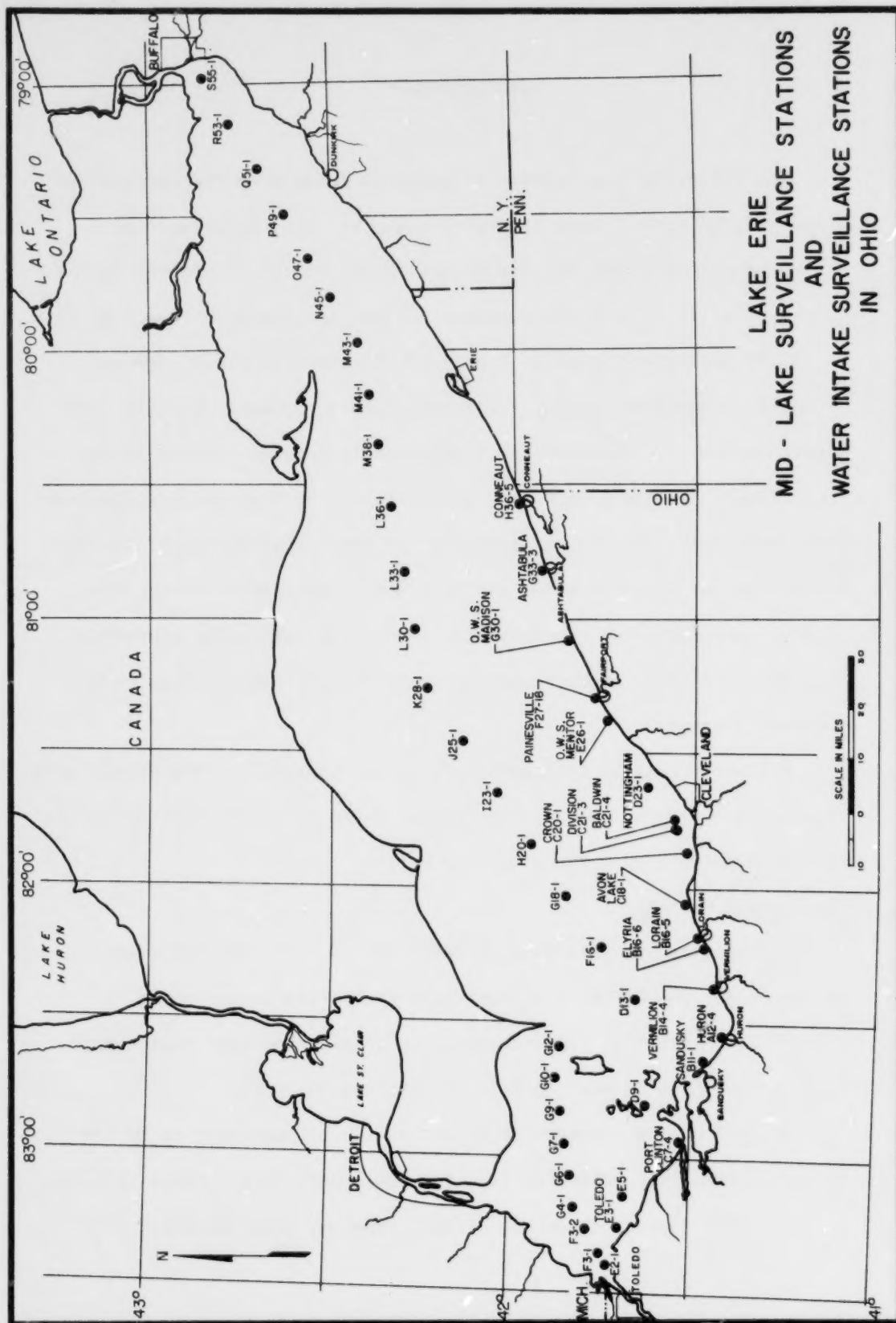
This continuing study is a part of the overall Ohio Department of Health program to monitor interstate waters for water quality standards compliance. In addition it supplements Federal efforts in the surveillance of Lake Erie waters as instructed by the Lake Erie Enforcement Conference. Finally an expansion of the normal municipal monitoring of raw and finished water for treatment requirement and quality control purposes would substantially aid in the successful production of a more palatable product especially during periods of algae-caused consumer distress.

All water quality information is being entered into the STORET data processing system as used by the Federal Water Pollution Control Administration and the Ohio Department of Health.

Program and Methods

The program was initiated in March 1968 by the Ohio Department of Health and the FWPCA, with municipal participation beginning in July 1968. Since that time however, the program has been expanded to include Lake Erie intakes in Pennsylvania and New York.

As part of the cooperative effort the Ohio Department of Health is making bimonthly determinations for toxic materials. These include zinc, silver, copper, chromium, nickel, cadmium, lead, arsenic, and



cyanide. In addition, the same agency is inspecting and guiding municipal laboratories to insure that standard procedures for water analysis are being employed.

The municipalities, which normally are concerned with only a few water quality parameters in producing a potable and palatable water, have comprehensively increased their analytical characterizations to include continuous temperature recording, pH, conductivity, total dissolved solids, turbidity, total iron, total manganese, chloride, sulfates, total bacteria, total and fecal coliforms, alkalinity, hardness, and chlorine demand.

The FWPCA is making all sample collections for both the State and Federal aspects of the program. In addition, the FWPCA is making the following biweekly determinations: DO, total phosphorus, soluble phosphorus, organic nitrogen, ammonia, nitrate, chemical oxygen demand, and plankton evaluations. Finally the same agency is making physical, biological, and chemical studies of the bottom sediments in the vicinity of each intake crib.

The analytical methods used by the municipalities and the FWPCA are found in "Great Lakes-Illinois River Basin Chemistry Laboratory Manual, Lake Michigan Basin Office", "Laboratory Manual, Lake Erie Basin Office", and in "Standard Methods for the Examination of Water and Wastewater", 12th ed. Toxic materials analysis made by the Ohio Department of Health is performed spectrometrically employing atomic absorption.

Tables 1 and 6 show data supplied by the Ohio Department of Health. Table 4 contains municipal data. Tables 2, 3, 5, 7 and 8 show data supplied by the Federal Water Pollution Control Administration. The abbreviations for data compilation are listed on pages 191 and 192.

TABLE 1

SUMMARY OF WATER INTAKE PHYSICAL DATA

Location Number	Intake	Latitude	Longitude	Total** Depth (ft.)	Intake** Depth (ft.)	Intake Line Diameter (in.)	Intake Line Type	Distance from shore (ft.)	%WA	%WB
E3-1	Toledo	41°42'00"	83°15'32"	17	10±5	108	C	11,000	50	50
C7-4	Port Clinton	41°31'22"	82°56'21"	8	4	30	C	2,000	75	25
B11-1	Sandusky	41°27'51"	82°38'50"	21	16	42	S	2,900	100	0
A12-4	Huron	41°24'23"	82°33'24"	15	10	36	C	2,100	100	0
B14-4	Vermilion	41°25'42"	82°22'09"	11	7	18	S	1,200	100	0
B16-6	Elyria	41°27'26"	82°13'15"	20	11	42	I	1,200	100	0
B16-5	Lorain	41°28'21"	82°11'41"	24	11	48	I	1,100	95	5
C18-1	Avon Lake	41°30'46"	82°02'36"	21	18	36	C	2,000	100	0
C20-1	Cleveland-Crown	41°31'08"	81°52'46"	44	*19	96	C	13,000	100	0
C21-3	Cleveland-Division	41°32'50"	81°45'50"	50	34	120	C	20,000	100	0
C21-4	Cleveland-Baldwin	41°32'54"	81°45'02"	47	17±9	108	C	17,000	50	50
D23-1	Cleve.-Nottingham	41°37'05"	81°37'02"	49	38	120	C	18,000	100	0
E26-1	O.W.S. - Mentor	41°43'34"	81°22'05"	17	14	36	C	2,000	100	0
F27-18	Painesville	41°45'24"	81°17'53"	11	6	24	I	1,100	50	50
G30-1	O.W.S. - Madison	41°50'00"	81°04'38"	20	16	24	I	1,800	95	5
G33-3	Ashtabula	41°54'30"	80°48'38"	23	20	30	C	1,600	95	5
H36-5	Conneaut	41°57'54"	80°34'38"	19	13	24	I	2,000	100	0

Notes:

- * Depth of intake as of 9/17/68. Previous depth was 34 feet.
 ** All depths referred to mean low water level (568.6 feet).

Abbreviations:

C - Concrete

I - Iron

S - Steel

%WA - Percent of raw water from above center line of inlet port.

%WB - Percent of raw water from below center line of inlet port.

TABLE 2
SEDIMENT CHEMISTRY
mg/g

Station	PO ₄ -P	Percent Solids	Volatile Solids	Total Kjeldahl Nitrogen	Oil & Grease	Total Iron	COD
Toledo*	--	--	--	--	--	--	--
Port Clinton	0.46	51.71	59.24	1.45	2.77	17.5	44.08
Sandusky	0.57	52.89	65.44	1.58	4.37	17.0	46.76
Huron	0.42	72.69	19.63	0.29	2.13	12.4	12.46
Vermilion*	--	--	--	--	--	--	--
Lorain	0.35	70.46	26.01	0.60	2.97	22.3	24.91
Elyria	0.35	75.23	26.64	0.50	1.45	22.0	27.10
Avon	0.46	75.70	14.05	0.28	1.69	80.2	19.10
Cleve-Crown	0.42	50.63	56.01	1.60	1.72	30.3	18.20
Cleve-Division	0.69	72.77	17.91	0.34	0.68	50.4	24.57
Cleve-Baldwin	0.65	60.76	23.90	1.29	1.45	46.2	37.22
Cleve-Nottingham	0.51	46.80	37.41	1.69	2.08	44.2	50.20
Mentor	0.26	73.90	8.97	0.16	0.43	29.2	10.16
Painesville	0.17	78.06	13.43	0.22	0.33	13.6	11.79
Madison	0.44	58.18	37.36	1.01	3.18	32.1	53.57
Ashtabula	0.33	76.29	10.99	0.25	0.75	53.7	18.44
Conneaut*	--	--	--	--	--	--	--
Average (West	0.94	--	81.0	2.2	--	32.4	66.1
Midlake (Cent.	0.72	--	63.0	1.8	0.42	35.5	41.0
Sediment (East	0.93	--	57.0	1.9	--	35.1	48.0

* Substrate such to make sampling for chemical analysis impossible

TABLE 3
SEDIMENT - PHYSICAL AND BIOLOGICAL
CHARACTERISTICS

Municipality	Bottom Sediment Description at Water Intake (1000 ft. Radius)	
	Physical	Biological
Toledo	Grey-black sludge, some coarse sand and gravel marshy odor	Tubificidae, Chironomidae, Sphaeriidae, Nematoda, Pulmonata
Port Clinton	Rocky, coarse brown and grey sand, no odor detectable	Tubificidae, Chironomidae, Unionidae, Nematoda
Sandusky	Grey-black sludge with brown overlay, marshy odor	Chironomidae, Tubificidae, Unionidae, Sphaeriidae
Huron	Fine brown sand, grey sludge, shale, no odor detectable	Chironomidae, Tubificidae, Amphipoda, Isopoda, Tricoptera, Prosobranchia
Vermilion	Very rocky, shale, fine sand, no odor detectable	Amphipoda, Tricoptera, Ephemeroptera, Turbellaria, Tubificidae, Chironomidae
Elyria	Very rocky, coarse sand and gravel, fishy odor	Amphipoda, Hydrapryazoa, Turbellaria, Ephemeroptera, Tricoptera, Hirudinea, Tubificidae, Chironomidae
Lorain	Very rocky, grey-brown fine sand, some sludge, slightly septic odor	Chironomidae, Tubificidae, Bryozoa, Tricoptera, Hirudinea, Turbellaria, Amphipoda, Ephemeroptera
Avon	Very rocky, shale, fine dark brown sand, some clay, no odor detectable	Tubificidae, Isopoda, Amphipoda, Hirudinea, Tricoptera, Hydra, bryozoa, Pulmonata, Chironomidae, Prosobranchia, Turbellaria, Ephemeroptera
Cleveland Crown	Grey-black sludge, clay, heavy light-brown overlay, fishy odor	Tubificidae, Nematoda, Unionidae, Chironomidae

TABLE 3 (Concluded)
SEDIMENT - PHYSICAL AND BIOLOGICAL
CHARACTERISTICS

Municipality	Bottom Sediment Description at Water Intake (1000 ft. radius)	
	Physical	Biological
Cleveland Division	Coarse sand, some grey black sludge, some oil, fishy, oil odor	Tubificidae, Isopoda, Nematoda, Chironomidae, Prosobranchia, Sphaeriidae
Cleveland Baldwin	Rocky, coarse grey sand, some grey-black sludge, fishy, septic odor	Tubificidae, Chironomidae, Sphaeriidae, Isopoda, Hydra, Bryozoa, Nematoda
Cleveland Nottingham	Grey-black sludge, light brown overlay, coarse sand, some oil, septic odor	Tubificidae, Chironomidae, Hirudinea, Isopoda, Prosobranchia, Sphaeriidae
Ohio Water Service Mentor	Rocky, coarse sand and silt, some fine grey-brown sand, fishy odor	Ephemeroptera, Tricoptera, Amphipoda, Prosobranchia, Hydra, Bryozoa, Unionidae, Amphipoda, Chironomidae, Tubificidae, Hirudinea, Sphaeriidae
Painesville**	Fine brown sand, no odor detectable	Tubificidae, Chironomidae
Ohio Water Service Madison	Shale, fishy odor	Tricoptera, Ephemeroptera, Plecoptera, Turbellaria, Hirudinea, Prosobranchia, Bryozoa, Tubificidae
Ashtabula	Fine grey-brown sand and silt and gravel. No odor detectable	Tubificidae, Sphaeriidae, Amphipoda, Chironomidae, Ephemeroptera, Prosobranchia, Pulmonata, Hydra, Bryozoa
Conneaut	Rock bottom, no odor detectable	Amphipoda, Ephemeroptera, Tricoptera, Plecoptera, Chironomidae, Tubificidae, Prosobranchia, Pulmonata, Turbellaria, Bryozoa

* Sediments sampled April 1968

** Physical nature of substrate poor for benthic fauna habitat

TABLE 4.
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	21.0	9	293	5.9	65	1.1	8.1	92			123	--	--	--	--	4
7-2-68	21.5	6	288	6.7	75	1.5	8.2	91			122	--	--	--	--	22
7-3-68	21.5	15	333	7.3	82	1.4	8.3	100			145	33	20	--	--	77
7-8-68	21.0	10	320	6.1	68	2.0	8.3	99			141	--	--	--	--	18
7-9-68	21.0	6	316	6.6	73	1.1	8.4	97			140	--	--	--	--	22
7-10-68	21.0	25	310	7.3	81	0.9	8.5	98			141	33	17	1.20	--	6
7-11-68	21.5	15	318	5.9	66	0.7	8.5	98			140	--	--	--	--	13
7-12-68	21.5	8	302	5.7	64	0.8	8.5	93			128	--	--	--	--	4
7-15-68	22.0	10	282	3.6	40	0.8	8.2	88			121	--	--	--	--	9
7-16-68	22.0	5	278	4.1	46	0.8	8.4	88			122	--	--	--	--	48
7-17-68	22.0	5	261	4.5	51	0.8	8.5	89			120	22	17	3.0	--	6
7-18-68	22.8	8	289	3.0	35	0.8	8.2	91			122	--	--	--	--	4
7-19-68	23.0	8	256	3.6	41	0.8	8.2	90			120	--	--	--	--	14
7-22-68	23.8	10	213	3.7	43	0.4	8.4	90			120	--	--	--	--	8
7-23-68	24.0	10	279	3.8	45	0.8	8.4	89			120	--	--	--	--	9
7-24-68	24.5	6	256	3.3	39	1.4	8.5	89			120	22	17	0.30	--	6
7-25-68	24.2	6	279	3.8	45	1.3	8.4	89			118	--	--	--	--	5
7-26-68	24.2	8	275	3.4	41	1.2	8.0	91			118	--	--	--	--	15
7-29-68	24.0	8	288	4.4	51	1.1	8.0	92			122	--	--	--	--	2
7-30-68	24.0	7	324	4.3	51	0.6	7.8	97			136	--	--	--	--	2
7-31-68	23.5	5	296	5.4	63	0.3	8.1	93			124	22	16	0.30	--	12
July Avg.	22.6	9	288	4.9	55	1.0	8.3	93			127	26	17	1.20		15
Max.	24.5	25	333	7.3	82	2.0	8.5	100			141	33	20	3.00		77
Min.	21.0	5	213	3.3	35	0.3	7.8	88			118	22	16	0.30		2

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-1-68	23.5	5	284	5.2	60	0.4	8.1	91	120	--	--	--	--	--	--	5
8-2-68	23.8	5	298	5.0	58	0.4	7.9	94	126	--	--	--	--	--	--	5
8-5-68	24.0	5	290	4.6	54	0.4	8.2	91	124	--	--	--	--	--	--	5
8-6-68	24.2	3	288	4.8	56	0.8	8.3	91	120	--	--	--	--	--	--	2
8-7-68	24.8	4	290	6.3	75	0.8	8.4	90	120	24	0.50	0.01	18	0.50	0.01	12
8-8-68	24.8	5	288	5.1	61	0.9	8.2	91	118	--	--	--	--	--	--	12
8-9-68	25.0	5	293	4.6	55	1.0	8.4	94	122	--	--	--	--	--	--	0
8-12-68	24.0	10	309	4.8	56	1.1	8.6	100	134	--	--	--	--	--	--	5
8-13-68	23.5	7	293	4.1	48	0.4	8.3	96	126	--	--	--	--	--	--	2
8-14-68	24.0	8	299	4.5	53	0.4	8.4	98	130	29	0.20	0.01	18	0.20	0.01	6
8-15-68	24.0	8	318	7.4	88	0.4	8.7	100	138	--	--	--	--	--	--	23
8-16-68	24.2	10	297	6.9	81	0.5	8.7	95	128	--	--	--	--	--	--	0
8-19-68	24.7	40	299	7.5	90	0.3	8.7	98	132	--	--	--	--	--	--	6
8-20-68	24.8	10	295	6.2	74	0.6	8.7	96	128	--	--	--	--	--	--	6
8-21-68	25.6	7	298	6.4	78	0.9	8.8	96	126	28	0.50	0.02	17	0.50	0.02	13
8-22-68	25.5	15	299	5.4	65	0.8	8.7	93	127	--	--	--	--	--	--	6
8-23-68	25.5	7	297	4.5	54	0.9	8.5	92	124	--	--	--	--	--	--	29
8-26-68	24.0	25	294	3.8	45	1.1	8.3	94	127	--	--	--	--	--	--	0
8-27-68	23.0	15	289	4.1	47	0.6	8.5	90	122	--	--	--	--	--	--	4
8-28-68	22.5	15	319	4.1	46	0.5	8.7	96	134	35	0.30	0.02	20	0.30	0.02	2
8-29-68	22.5	10	315	4.7	54	0.6	8.7	96	137	--	--	--	--	--	--	2
8-30-68	22.2	15	306	7.8	90	0.7	8.8	94	130	--	--	--	--	--	--	2
Aug. Avg.	24.1	10	298	5.4	63	0.7	8.5	94	127	29	0.38	0.02	18	0.38	0.02	7
Max.	25.6	40	319	7.5	90	1.1	8.8	100	138	35	0.50	0.02	20	0.50	0.02	23
Min.	22.2	3	284	3.8	45	0.3	7.9	90	120	24	0.20	0.01	17	0.20	0.01	0

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
9-3-68	21.8	9	272	7.3	83	0.4	8.5	84	117	17	0.30	0.01	0			
9-4-68	21.2	9	287	7.5	84	0.4	8.6	86	120	17	0.30	0.01	2			
9-5-68	22.1	7	284	7.5	86	0.5	8.6	84	118	17	0.30	0.01	0			
9-6-68	21.8	10	268	7.2	81	0.4	8.5	81	114	17	0.30	0.01	6			
9-9-68	21.4	10	268	7.5	85	0.4	8.4	80	115	17	0.30	0.01	0			
9-10-68	21.4	9	266	7.3	82	0.5	8.4	81	116	17	0.40	0.01	2			
9-11-68	21.0	10	265	7.6	85	0.3	8.4	88	117	22	0.40	0.01	15			
9-12-68	20.0	8	265	7.3	80	0.3	8.4	88	116	17	0.30	0.01	6			
9-13-68	20.0	10	268	7.5	81	0.4	8.4	88	115	17	0.30	0.01	7			
9-16-68	21.0	8	272	8.0	89	0.3	8.5	90	118	17	0.30	0.01	6			
9-17-68	21.0	9	271	8.1	90	0.5	8.5	89	117	17	0.30	0.01	15			
9-18-68	20.5	7	268	8.0	88	0.4	8.6	88	115	17	0.30	0.01	26			
9-19-68	20.5	9	266	8.0	88	0.2	8.6	87	116	21	0.38	0.01	15			
9-20-68	20.5	9	266	7.5	82	0.3	8.5	87	115	17	0.30	0.01	4			
9-23-68	20.3	5	268	7.1	77	0.4	8.5	85	114	17	0.30	0.01	5			
9-24-68	20.5	5	270	6.6	71	0.3	8.4	87	114	17	0.30	0.01	4			
9-25-68	20.5	--	266	6.8	74	0.3	8.4	87	115	17	0.35	0.02	6			
9-26-68	20.5	6	272	7.3	80	0.4	8.4	88	115	22	0.35	0.02	6			
9-30-68	19.0	5	272	7.5	80	0.2	8.4	89	118	17	0.30	0.01	23			
Sept. Avg.	19.6	8	270	7.5	82	0.4	8.5	86	116	23	0.36	0.01	8			
Max.	22.1	10	287	8.1	90	0.5	8.6	90	120	28	0.40	0.02	26			
Min.	19.0	5	265	6.6	71	0.2	8.4	80	114	21	0.30	0.01	0			
10-1-68	19.5	6	272	7.5	81	0.3	8.4	88	118	17	0.36	0.01	62			
10-2-68	19.5	10	270	7.5	81	0.0	8.3	89	118	17	0.36	0.01	2			
10-3-68	19.5	10	272	7.8	84	0.3	8.4	90	118	18	0.35	0.02	6			
10-4-68	17.5	20	305	7.7	80	0.4	8.4	97	130	18	0.35	0.02	12			
10-7-68	15.5	6	284	8.4	84	0.3	8.3	90	120	17	0.30	0.01	6			

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-8-68	15.0	6	286	8.4	83	0.8	8.4	8.4	92		121	34	19	0.50	0.02	12
10-9-68	14.5	15	320	9.4	92	0.7	8.4	8.4	101		137					15
10-10-68	15.5	6	293	9.0	90	0.8	8.4	8.4	95		128					12
10-11-68	15.5	5	287	9.3	94	0.6	8.4	8.4	93		125					11
10-14-68	16.0	5	293	8.8	88	0.9	8.4	8.4	95		125					7
10-15-68	16.0	4	294	9.2	93	0.8	8.4	8.4	95		125					4
10-16-68	16.5	3	294	9.1	93	1.2	8.5	8.5	95		126	29	17	0.16	0	5
10-17-68	16.7	3	290	8.9	91	1.2	8.4	8.4	94		125					4
10-18-68	17.0	3	289	8.4	85	0.9	8.4	8.4	94		125					5
10-21-68	16.0	5	290	8.1	81	0.6	8.3	8.3	94		126					5
10-22-68	15.5	5	290	8.3	83	0.7	8.3	8.3	94		125					5
10-23-68	15.0	7	289	8.5	84	0.6	8.4	8.4	94		124					2
10-24-68	14.0	6	288	8.9	85	0.7	8.3	8.3	95		126	26	18	0.30	0.01	6
10-25-68	14.0	5	287	8.6	83	0.6	8.3	8.3	94		125					9
10-28-68	12.0	6	261	9.5	87	0.7	8.2	8.2	88		112					7
10-29-68	11.3	20	257	9.7	88	0.4	8.2	8.2	88		112					2
10-30-68	9.7	10	280	10.3	90	0.4	8.3	8.3	92		122	23	16	0.50	0	2
10-31-68	9.6	6	282	10.3	90	1.1	8.3	8.3	90		122					13
Oct. Avg.	15.3	7	286	8.8	87	0.6	8.3	8.3	93		123	27	17	0.36	0.01	9
Max.	19.5	20	305	10.3	94	1.2	8.5	8.5	101		137	34	19	0.50	0.02	62
Min.	9.6	3	257	7.5	80	0.0	8.2	8.2	88		112	23	16	0.16	0	2
11-1-68	9.4	10	284	10.5	91	0.7	8.3	8.3	94		123					12
11-4-68	10.3	6	280	10.7	95	0.3	8.3	8.3	91		122					8
11-5-68	10.3	7	279	10.7	95	0.3	8.3	8.3	91		121					2
11-6-68	10.4	15	272	10.7	95	0.4	8.4	8.4	89		117					5
11-7-68	10.3	32	268	10.5	93	0.5	8.3	8.3	86		115	20	20	1.50	0.05	15
11-8-68	9.2	35	308	10.2	88	0.5	8.3	8.3	101		134					12

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-12-68	6.8	50	327	11.3	92	0.8	8.3	8.3	104		139	20	15	1.80	0.04	80
11-13-68	7.2	30	259	11.2	93	0.8	8.2	8.2	88		111					68
11-14-68	7.0	10	241	11.5	95	0.8	8.3	8.3	85		105					50
11-15-68	6.8	10	273	11.4	93	0.4	8.2	8.2	92		117					6
11-18-68	7.0	10	233	11.4	94	0.6	8.3	8.3	84		106					7
11-19-68	6.8	10	260	11.1	90	0.3	8.3	8.3	89		112					12
11-20-68	5.0	50	300	11.8	92	0.6	8.2	8.2	95		127	30	18	2.20	0.05	112
11-21-68	4.5	20	294	11.9	91	1.1	8.2	8.2	94		125					59
11-22-68	4.8	10	241	12.2	95	0.6	8.2	8.2	86		108					12
11-25-68	5.0	15	302	12.1	95	0.6	8.1	8.1	97		129					13
11-26-68	5.0	10	297	12.2	96	0.9	8.1	8.1	96		126					12
11-27-68	5.0	10	280	12.4	98	0.7	8.1	8.1	93		120	17	16	0.57	0.01	5
11-29-68	5.4	15	308	11.7	92	1.0	8.1	8.1	98		130					19
Nov. Avg.	7.2	20	279	11.3	93	0.6	8.2	8.2	92		120	22	17	1.52	0.04	27
Max.	10.4	50	327	12.4	98	1.1	8.4	8.4	104		139	30	20	2.20	0.05	112
Min.	4.5	6	241	10.2	88	0.3	8.1	8.1	88		105	17	15	0.57	0.01	2
12-2-68	4.8	15	380	11.8	93	2.5	8.1	8.1	113		156					23
12-3-68	5.0	10	342	11.8	94	1.8	8.1	8.1	105		142					13
12-4-68	5.0	20	286	12.1	95	1.2	8.1	8.1	91		118	19	17	1.40	0.025	25
12-5-68	4.7	15	323	12.0	94	1.6	8.1	8.1	102		136			3.00		305
12-6-68	3.7	55	508	11.9	90	1.4	7.9	7.9	146		219					1,345
12-9-68	2.0	20	276	13.0	94	1.1	8.0	8.0	87		114					142
12-10-68	1.7	15	264	13.0	93	1.0	8.0	8.0	87		114					19
12-11-68	1.0	10	268	13.5	95	1.1	8.0	8.0	88		116	20	17	0.50	0.010	52
12-12-68	0.7	8	275	13.7	96	0.7	8.1	8.1	91		122					150
12-13-68	1.5	15	352	13.4	96	1.2	8.1	8.1	105		150					460
12-16-68	0.5	25	321	13.7	95	0.9	8.0	8.0	102		139					460

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-17-68	0.5	15	258	14.1	98		0.9	8.0	88		110					19
12-18-68	0.3	10	253	13.9	97		0.9	8.0	87		110	20	14	0.50	0.010	16
12-19-68	0.3	8	262	14.0	97		1.2	8.0	95		114					43
12-20-68	0.5	7	253	14.0	98		0.9	8.0	93		110					31
12-23-68	0.4	10	260	13.8	97		1.1	8.0	89		114					1,275
12-24-68	0.2	20	256	14.0	97		1.5	8.0	89		113					117
12-26-68	0.2	10	284	14.1	98		1.9	7.9	96		132	26	17	1.50	0.010	562
12-27-68	0.2	15	338	14.2	99		1.8	7.9	103		144					1,212
12-30-68	0.3	10	260	14.0	97		1.5	8.0	93		114					1,212
12-31-68	0.2	8	263	14.1	98		1.7	8.0	94		114	20	16	1.00	0.020	51
Dec. Avg.	1.6	15	299	13.3	96		1.3	8.0	97		128	21	16	1.32	0.015	359
Max.	5.0	55	508	14.2	99		2.5	8.1	146		219	26	17	3.00	0.025	1,345
Min.	0.2	7	253	11.8	90		0.9	7.9	87		110	19	14	0.50	0.010	13

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
7-1-68	22.2	25		4.7	53	5.5	7.6	75			126					6,250
7-2-68	22.7	30		5.1	58	6.5	7.5	84			142					6,100
7-3-68	22.7	55		4.8	54	5.7	7.2	85			138					1,000
7-4-68	22.2	100		5.5	63	8.1	7.8	73			140					2,050
7-5-68	22.2	35		6.5	74	5.8	7.2	94			134					1,320
7-6-68	22.2	45		4.8	54	9.7	7.2	101			148					2,850
7-7-68	21.9	25		4.4	49	7.1	7.6	85			134					5,300
7-8-68	21.5	25		4.2	47	6.2	7.2	70			140					8,000
7-9-68	21.1	40		4.5	50	6.1	7.8	85			140					6,500
7-10-68	22.4	30		4.4	50	5.1	7.8	85			132	28				2,500
7-11-68	22.2	40		4.1	46	5.1	7.6	87			130					400
7-12-68	22.2	80		3.6	41	6.0	7.6	95			136					1,900
7-13-68	22.2	45		2.8	31	5.8	7.6	102			164					2,050
7-14-68	22.2	25		2.3	26	6.4	7.4	97			136					800
7-15-68	22.2	25		--	--	4.6	7.4	75			140					1,450
7-16-68	22.7	25		4.3	49	4.6	7.6	78			132					2,400
7-17-68	23.7	35		4.5	51	5.1	7.6	101			128					2,100
7-18-68	23.3	45		1.7	19	5.2	7.4	--			140					2,100
7-19-68	23.3	30		3.5	40	6.0	7.2	--			142					5,300
7-20-68	25.0	45		4.0	48	5.4	7.6	98			140					2,700
7-21-68	24.4	25		3.6	42	7.8	7.6	63			150					6,000
7-22-68	24.4	25	250	3.5	41	5.0	7.6	84		80	125					2,200
7-23-68	24.4	55	300	5.6	65	5.5	7.8	77		150	128					2,900
7-24-68	25.0	45	300	5.4	64	4.7	7.8	78		150	130					2,000
7-25-68	25.0	30	290	4.9	59	6.5	7.8	--		145	148					1,500
7-26-68	25.0	50	250	5.9	65	5.5	8.0	--		125	140	58				13,000
7-27-68	25.5	45	290	6.4	78	7.2	7.8	97		145	150					8,000
7-28-68	24.4	65	290	6.1	72	6.0	8.2	88		145	130					9,000
7-29-68	23.0	55	280	6.2	71	5.2	8.2	98		140	128		26			6,750

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
7-30-68	23.0	50	270	7.5	87	5.4	8.4	8.4	94	135	124					8,200
7-31-68	23.3	35	290	6.6	77	6.0	8.4	8.4	75	145	126					900
July Avg.	23.1	40	281	4.7	54	6.0	7.7	7.7	86	136	137	58	27			3,985
Max.	25.5	100	300	7.5	87	.7	8.4	8.4	101	150	164	58	28			13,000
Min.	21.1	25	250	1.7	19	4.6	7.2	7.2	70	80	124	58	26			400
8-1-68	23.3	40	298	--	--	6.4	8.4	8.4	--	149	--	24	28			1,150
8-2-68	23.3	75	290	6.3	73	4.6	8.4	8.4	93	145	150					2,800
8-3-68	24.4	45	280	5.2	61	5.8	8.4	8.4	79	140	126					8,650
8-4-68	24.4	50	260	5.5	65	6.4	8.4	8.4	101	130	140					4,930
8-5-68	24.4	30	290	3.2	38	6.4	7.8	7.8	100	145	128					3,750
8-6-68	24.4	40	310	2.6	30	6.0	7.8	7.8	105	155	118					12,000
8-7-68	24.4	60	--	6.0	70	5.9	8.4	8.4	95	--	132					5,000
8-8-68	25.5	45	300	4.7	56	5.9	8.0	8.0	99	150	128		26			4,500
8-9-68	25.5	85	200	4.7	56	7.0	8.0	8.0	96	100	136					2,100
8-10-68	26.1	55	300	6.3	77	5.9	8.2	8.2	98	150	124					950
8-11-68	23.8	90	300	5.3	62	6.9	8.4	8.4	100	150	128					8,050
8-12-68	23.8	45	290	6.6	78	6.0	8.4	8.4	99	145	124					4,750
8-13-68	23.8	50	300	4.2	49	5.9	8.4	8.4	96	150	124					14,000
8-14-68	23.8	45	300	6.6	77	4.3	8.4	8.4	102	150	130					--
8-15-68	23.8	35	--	6.3	74	7.0	8.4	8.4	95	--	136			0.06	0.0	12,000
8-16-68	23.8	45	260	6.6	78	5.6	8.2	8.2	--	130	132					7,200
8-17-68	25.0	55	--	6.8	81	5.8	8.4	8.4	101	--	136		26			7,000
8-18-68	25.0	50	--	6.2	74	5.3	8.4	8.4	99	--	134					7,900
8-19-68	25.0	45	290	5.9	70	4.3	8.4	8.4	99	145	142					24,000
8-20-68	25.5	40	290	5.9	71	3.9	8.4	8.4	96	145	132					6,100
8-21-68	25.5	50	300	5.2	62	4.6	8.4	8.4	102	150	138					600
8-22-68	25.5	50	280	6.3	76	4.7	8.4	8.4	90	140	130					3,700

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-23-68	25.5	40	260	6.4	78	5.0	8.4	8.4	--	130	122					4,000
8-24-68	27.2	35	300	6.6	82	5.0	8.4	8.4	100	150	124					3,450
8-25-68	26.6	30	280	6.2	76	--	8.4	98	98	140	126					--
8-26-68	24.4	80	270	6.3	75	4.6	8.4	96	96	135	126					32,000
8-27-68	22.1	150	260	7.7	87	5.9	8.4	84	84	130	118					39,500
8-28-68	22.2	80	260	8.6	98	5.3	8.4	84	84	130	144		24			1,600
8-29-68	22.0	55	230	8.1	92	5.1	8.4	67	67	115	130	25	24	0.01	0.0	170,000
8-30-68	22.2	45	260	7.6	87	4.5	8.4	88	88	130	132					290,000
8-31-68	22.2	50	260	7.8	90	5.9	8.4	92	92	130	124					410,000
Aug. Avg.	24.3	55	269	6.1	71	5.5	8.3	95	95	139	130	25	26	0.04	0	37,644
Max.	27.2	150	310	8.1	98	7.0	8.4	102	102	155	150	25	28	0.06	0	410,000
Min.	22.0	30	260	2.6	30	3.9	7.8	67	67	115	118	24	24	0.01	0	600
9-1-68	22.2	70	280	6.7	76	5.3	8.4	86	86	140	132	24	26	0.06	0	70,000
9-2-68	22.2	35	220	6.3	72	6.0	8.4	--	--	110	128					16,000
9-3-68	21.6	50	300	7.6	86	4.7	8.4	85	85	150	128					24,000
9-4-68	21.6	40	300	6.8	76	3.4	8.4	68	68	150	128					7,000
9-5-68	21.6	30	220	6.8	76	4.4	8.4	85	85	110	122					35,000
9-6-68	21.6	40	220	6.5	73	5.7	7.4	86	86	110	126					58,000
9-7-68	21.1	50	300	7.4	82	5.5	8.4	96	96	150	124					15,000
9-8-68	21.1	55	300	7.8	87	5.2	8.4	80	80	150	128					56,000
9-9-68	21.1	40	300	7.3	82	4.8	8.4	92	92	150	132		24			38,000
9-10-68	21.1	40	300	7.6	85	4.6	8.4	98	98	150	134					35,000
9-11-68	20.5	60	300	7.8	86	4.6	8.4	79	79	150	126					27,000
9-12-68	--	95	270	7.2	--	5.0	8.4	90	90	136	120					7,833
9-13-68	20.0	40	240	8.1	88	5.6	8.4	84	84	120	120	29		0.01	0	17,000
9-14-68	20.5	45	250	8.4	93	4.6	8.4	72	72	125	120					17,700
9-15-68	20.0	30	250	6.8	74	5.7	8.4	79	79	125	130					27,000

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-16-68	20.5	35	260	5.6	62	5.2	8.4	8.4	78	130	120					18,000
9-17-68	20.0	25	260	7.5	82	5.3	8.4	8.4	82	130	122					29,000
9-18-68	20.0	40	260	7.9	87	3.8	8.4	8.4	75	130	130					7,700
9-19-68	19.0	25	220	7.8	83	5.8	8.4	8.4	95	110	150	29		0.18	0	7,100
9-20-68	20.0	25	200	7.9	87	5.2	8.4	8.4	93	100	136					18,000
9-21-68	21.1	40	280	7.9	88	3.6	8.4	8.4	97	140	130		26			3,600
9-22-68	21.1	25	280	6.3	70	4.7	8.2	8.2	95	140	136					12,500
9-23-68	21.1	25	290	6.9	76	5.0	8.2	8.2	89	145	144					13,400
9-24-68	21.6	25	290	7.8	88	4.5	8.2	8.2	93	145	140					10,250
9-25-68	21.6	30	280	7.7	87	2.9	8.2	8.2	65	140	134					1,050
9-26-68	20.5	25	230	7.2	80	5.9	8.4	8.4	--	115	130					1,600
9-27-68	20.0	30	210	7.7	84	5.7	8.4	8.4	95	105	146		26	0.05		13,200
9-28-68	20.0	80	260	8.4	92	5.4	8.4	8.4	82	130	152					66,000
9-29-68	17.4	25	260	8.8	95	5.3	8.4	8.4	102	130	142	26				32,670
9-30-68	18.3	25	250	8.0	86	3.4	8.4	8.4	97	125	126					33,000
Sept. Avg.	20.7	40	263	7.4	82	4.9	8.3	8.3	86	131	131	27	26	0.08	0	23,920
Max.	22.2	95	300	8.8	95	6.0	8.4	8.4	102	150	152	29	26	0.18	0	70,000
Min.	18.8	25	200	5.6	70	2.9	7.4	7.4	65	136	120	24	24	0.01	0	1,050
10-1-68	18.8	25	260	8.4	89	5.0	8.4	8.4	100	130	126		26			17,000
10-2-68	18.8	40	270	8.9	95	3.8	8.4	8.4	104	135	150					17,000
10-3-68	18.8	30	270	7.5	80	6.5	8.4	8.4	90	135	132					6,600
10-4-68	16.0	55	180	8.1	81	4.6	8.4	8.4	90	--	146	28		0.03		12,300
10-5-68	14.4	85	300	8.9	86	4.7	8.4	8.4	97	150	130					2,550
10-6-68	15.5	25	280	8.7	86	3.8	8.4	8.4	103	140	146					5,900
10-7-68	13.8	25	250	9.4	90	5.3	8.4	8.4	85	125	134					34,333
10-8-68	14.4	25	250	9.6	93	3.7	8.4	8.4	107	125	140					32,500
10-9-68	14.4	45	300	9.4	91	3.6	8.4	8.4	92	150	142					48,500

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-10-68	15.0	25	220	9.0	98	3.7	8.4	8.4	90	110	138	21		0.04		13,000
10-11-68	15.0	25	240	8.8	87	4.3	8.4	8.4	94	120	140		26			80,250
10-12-68	15.5	25	280	8.6	85	3.9	8.2	8.2	100	140	128					134,000
10-13-68	15.5	35	250	7.9	79	5.2	8.2	8.2	71	125	132					118,000
10-14-68	15.5	45	250	7.7	77	5.0	8.4	8.4	81	125	148					190,000
10-15-68	15.5	30	250	8.2	82	4.8	8.2	8.2	102	125	128					52,000
10-16-68	16.6	25	300	7.6	77	4.3	8.2	8.2	99	150	146					32,000
10-17-68	16.0	25	250	8.5	86	4.2	8.4	8.4		125	140	21		0.04		6,000
10-18-68	16.0	25		8.3	84	4.7	8.4	8.4	97	115	140					44,500
10-19-68	16.6	25	260	7.8	79	4.0	8.2	8.2	100	130	126					5,200
10-20-68	16.6	25	240	8.8	90	5.1	8.4	8.4	101	120	140		24			9,733
10-21-68	15.5	35	250	8.8	87	4.7	8.4	8.4	101	125	152					3,450
10-22-68	14.0	40	250	9.0	87	4.2	8.4	8.4	99	125	138					69,000
10-23-68	14.0	45	300	9.4	90		8.4	8.4	105	150	158					
10-24-68	13.0	25	200	9.5	90		8.4	8.4	93	100	140	13		0.03		
10-25-68	13.0	40	220	10.0	94	4.3	8.2	8.2	98	110	150					11,600
10-26-68	12.2	60	250	9.6	88	4.2	8.4	8.4	100	125	130					26,000
10-27-68	11.1	25	300	9.2	84		8.4	8.4	102	150	140					1,850
10-28-68	10.0	35	230	10.2	90		8.4	8.4	80	115	152					10,000
10-29-68	10.0	50		10.5	93		7.6	7.6	73		142					2,000
10-30-68	9.0	50	220	11.0	95	3.7	7.6	7.6	98	110	168	25		0.07		1,900
10-31-68	9.0	35	230	10.1	87	5.3	8.4	8.4	100	115	134					11,000
Oct. Avg.	14.5	36	253	8.9	84	4.5	8.3	8.3	95	127	140	22	25	0.04		34,419
Max.	18.8	85	300	11.0	98	6.5	8.4	8.4	107	150	158	28	26	0.07		190,000
Min.	9.0	25	180	7.5	77	3.6	7.6	7.6	71	110	126	13	24	0.03		1,850
11-1-68	11.1	25	190	11.0	99	4.5	8.4	8.4	98	95	140		20			4,000
11-2-68	10.0	25	230	11.3	100	3.0	8.4	8.4	97	115	144					3,200

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-3-68	10.0	40	210	11.1	98	5.2	8.4	8.4	96	105	158					1,350
11-4-68	10.0	30	240	10.3	90	4.3	8.4	8.4	70	120	150					400
11-5-68	10.0	30	220	11.3	100	4.0	8.4	8.4	95	110	148					14,500
11-6-68	10.0	40	225	10.7	95	5.5	8.4	8.4	96	113	144					600
11-7-68	10.0	100	260	9.6	84	7.1	8.4	8.4	90	130	130					11,000
11-8-68	10.0	170	190	10.0	87	7.1	8.4	8.4	90	95	128					4,600
11-9-68	9.0	45	200	11.0	95	3.6	8.2	8.2	92	100	134	26		0.07		300
11-10-68	8.0	55	200	11.0	93	4.9	8.4	8.4	76	100	128		22			2,050
11-11-68	7.7	80	230	10.9	91	3.7	8.2	8.2	77	115	134					1,750
11-12-68	7.7	90	240	10.7	91	4.3	7.8	7.8	98	120	134					9,350
11-13-68	6.6	180	250	11.8	97	5.6	8.2	8.2	77	125	166					1,150
11-14-68	6.0	70	230	12.0	97	4.9	8.4	8.4	103		172	38		0.09		2,300
11-15-68	7.7	70	270	11.6	97	3.3	8.4	8.4	99	115	152					1,550
11-16-68	7.2	70	270	12.4	103	4.1	8.4	8.4	102	135	138					2,800
11-17-68	7.7	60	220	11.8	97	3.9	7.8	7.8	97	110	144					1,950
11-18-68	7.3	35	260	11.1	92	9.5	8.4	8.4	93	130	124					700
11-19-68	7.7	60	250	12.2	101	4.3	8.2	8.2	97	125	132					3,500
11-20-68	5.5	160	240	11.9	94	3.2	8.0	8.0	99	120	128		24			700
11-21-68	5.5	100	230	12.2	97	4.6	8.0	8.0	96	115	142					400
11-22-68	2.2	45	180	13.4	95	4.4	8.4	8.4	82	90	140	26		0.10		1,350
11-23-68	5.5	35	260	13.1	104	2.5	8.2	8.2	104	130	126					300
11-24-68	4.4	25	220	13.2	102	5.9	8.2	8.2	84	110	150					100
11-25-68	5.5	35	210	13.2	104	3.0	8.2	8.2	105	105	152					300
11-26-68	5.5	25	240	13.4	106	4.8	8.2	8.2	105	120	162					0
11-27-68	5.5	25	240	12.7	101	4.6	8.2	8.2	97	120	144					800
11-28-68	5.5	25	150	11.9	94	3.3	8.4	8.4	96	75	160					15,500
11-29-68	5.5	25	210	11.7	93	2.6	8.4	8.4	94	105	152	22	20	0.04		4,600
11-30-68	5.5	35	250	11.9	94	5.1	8.4	8.4	101	125	150					950

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
Nov. Avg.	7.3	60	226	12.5	96	4.6	8.3	93	111	144	28	22	0.07	3,068		
Max.	11.1	180	270	13.4	106	9.5	8.4	105	130	172	38	24	0.10	15,500		
Min.	4.4	25	150	9.6	84	2.6	7.8	70	75	126	22	20	0.04	0		
12-1-68	5.5	25	230	12.8	101	6.1	8.2	73	115	152		20				1,100
12-2-68	5.5	25	230	12.8	101	3.9	8.2	99	115	136						28,000
12-3-68	5.5	25	220	12.7	100	4.9	8.0	99	110	142						1,300
12-4-68	5.5	60	250	12.4	98	4.6	8.0	101	125	134						
12-5-68	5.5	65	190	12.8	101	2.7	8.2	90	95	170						
12-6-68	5.5	90		13.8	109	4.6	8.4	90	146	146				0.12		550
12-7-68	2.7	45	200	13.3	97	3.8	8.2	92	100	134						600
12-8-68	2.7	50	200	13.8	102	3.8	8.2	94	100	122						100
12-9-68	1.6	140	400	14.5	104	7.5	7.8	140	200	210		28				3,750
12-10-68	1.1	150	400	14.3	101	9.1	8.0	137	200	192						34,000
12-11-58	1.1	65	310	14.5	103	6.9	7.8	98	155	158						5,366
11-12-68	1.1	35	222	14.7	104	3.9	8.4	75	111	152				0.09		22,000
12-13-68	2.7	45	200	13.4	97	4.2	8.4	93	100	160		25				78,500
12-14-68	2.2	80	250	13.7	101	4.8	8.0	102	125	150						1,900
12-15-68	1.1	130	270	14.4	102	4.8	8.0	115	135	190						1,250
12-16-68	1.1	100	300	15.0	107	11.5	8.0	116	150	208						6,666
12-17-68	1.1	35	290	15.5	110	7.7	7.8	110	145	154						35,500
12-18-68	1.1	50	360	14.4	102	8.3	7.8	109	180	180						5,600
12-19-68	1.1	50	280	14.3	101	7.4	8.2	98	140	200						2,800
12-20-68	1.1	30	230	14.7	104	2.1	8.2	110	115	174		53		0.05		34,500
12-21-68	1.1	60	240	14.4	102	8.4	7.8	107	120	164			26			2,700
12-22-68	1.1	35	220	14.4	102	5.4	7.8	88	110	128						8,333
12-23-68	1.1	50	210	14.7	104	5.2	8.2	87	105	150						950
12-24-68	0.5	35	270	14.9	104	6.7	7.8	100	135	160						0
12-25-68	0.5	35	250	13.7	96	5.2	8.4	59	125	150						750

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-26-68	0.5	40	230	15.4	107	4.9	8.4	93	115	186	37	0.05	300			
12-27-68	2.5	35	250	13.9	102	5.8	8.4	102	125	150	100					
12-28-68	1.1	25	230	15.4	109	4.8	8.2	102	115	144	100					
12-29-68	1.1	90	190	15.2	108	5.9	8.2	74	145	156	0					
12-30-68	1.1	45	300	14.4	102	6.3	7.8	104	150	164	19,000					
12-31-68	1.1	30	270	13.9	98	8.3	7.1	76	135	144	2,550					
Dec. Avg.	2.2	57	256	14.1	102	6.2	8.0	98	127	160	36	24	0.08	10,285		
Max.	5.5	150	400	15.5	110	11.5	8.4	140	200	216	53	28	0.12	78,500		
Min.	0.5	25	190	12.4	96	2.1	7.1	59	95	122	25	23	0.05	0		

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	19.0	40		--	--		2.9	8.1	91		132	--				91
7-2-68	21.0	20		5.8	64		2.8	8.0	93		124	17				4
7-3-68	21.0	25		7.2	80		--	8.2	95		128	--				0
7-4-68	21.0	10		--	--		3.1	8.3	96		--	--				--
7-5-68	21.0	20		7.6	84		3.8	8.3	94		130	20				7
7-6-68	21.0	9		--	--		2.9	8.3	97		--	--				--
7-7-68	21.0	7		--	--		3.3	8.1	95		--	--				--
7-8-68	21.0	10		4.7	52		3.2	7.9	95		130	18				--
7-9-68	20.5	30		4.5	50		3.0	7.9	94		136	18				23
7-10-68	21.0	80		5.7	63		3.0	7.9	95		126	18				4
7-11-68	21.0	30		6.8	76		3.1	8.2	94		130	--				9
7-12-68	21.3	15		4.8	53		3.0	8.0	92		126	--				4
7-13-68	21.0	10		--	--		3.1	7.9	95		--	--				9
7-14-68	21.0	10		--	--		3.2	7.9	96		--	--				--
7-15-68	21.0	10		3.5	38		3.5	7.8	94		132	--				--
7-16-68	21.0	10		1.9	20		3.3	7.7	95		132	17				93
7-17-68	21.0	9		2.2	24		3.4	7.7	95		124	--				0
7-18-68	21.0	10		1.4	15		3.1	7.7	97		130	--				9
7-19-68	21.0	8		0.8	8		3.1	7.7	96		130	--				23
7-20-68	23.0	10		--	--		3.0	8.1	95		--	--				15
7-21-68	23.0	10		--	--		3.1	7.8	95		--	--				--
7-22-68	21.0	10		0.8	8		3.9	7.6	97		126	--				--
7-23-68	23.0	15		6.1	70		3.6	8.3	97		128	15				23
7-24-68	23.0	10		4.2	48		3.0	7.8	94		128	--				9
7-25-68	23.8	7		3.9	45		2.9	8.3	92		128	--				43
7-26-68	24.0	7		7.3	86		2.8	8.5	93		126	--				4
7-27-68	24.0	10		--	--		2.8	8.1	95		--	--				20
7-28-68	24.0	10		--	--		3.1	7.9	95		--	--				--
7-29-68	23.0	10		6.3	73		3.1	8.3	96		130	--				15

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BII01

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
7-30-68	23.8	6		6.2	72	3.0	8.3	8.3	93		124	16				23
7-31-68	24.0	6		6.1	71	3.1	8.3	8.3	94		128	--				23
July Avg.	21.8	15		4.7	52	3.1	8.0	8.0	95		129	17				21
Max.	24.0	80		7.6	86	3.9	8.3	8.3	97		136	20				93
Min.	19.0	6		0.8	8	2.8	7.7	7.7	91		124	15				0
8-1-68	23.5	7		5.8	67	3.2	8.2	8.2	93		134	--				4
8-2-68	24.0	8		6.3	74	3.2	8.3	8.3	93		128	--				9
8-3-68	24.0	10		--	--	3.3	8.1	8.1	94		--	--				--
8-4-68	24.0	10		--	--	3.4	8.0	8.0	96		--	--				--
8-5-68	24.0	7		3.2	37	3.4	7.7	7.7	95		132	--				9
8-6-68	23.8	5		2.7	31	3.4	7.8	7.8	96		134	16				11
8-7-68	24.0	6		2.6	30	3.5	7.8	7.8	95		134	--				15
8-8-68	24.0	5		3.4	40	3.4	7.8	7.8	95		130	--				93
8-9-68	24.3	10		4.4	52	3.0	8.0	8.0	93		130	--				23
8-10-68	24.5	15		--	--	3.1	8.3	8.3	97		--	--				--
8-11-68	24.5	35		--	--	4.0	8.0	8.0	98		--	--				--
8-12-68	24.5	10		6.0	71	3.8	8.2	8.2	98		126	--				7
8-13-68	24.5	10		4.9	58	3.4	8.0	8.0	98		136	17				9
8-14-68	24.3	7		5.5	65	3.4	8.0	8.0	96		124	--				43
8-15-68	24.5	10		7.1	85	3.2	8.3	8.3	96		134	--				9
8-16-68	24.5	10		6.1	71	3.0	8.3	8.3	92		128	--				21
8-17-68	24.5	10		--	--	2.8	8.2	8.2	92		--	--				--
8-18-68	24.5	10		--	--	2.8	8.1	8.1	95		--	--				--
8-19-68	25.0	20		6.6	79	2.9	8.2	8.2	94		132	--				15
8-20-68	25.0	15		6.8	81	3.3	8.2	8.2	90		126	14				4
8-21-68	25.0	7		6.4	76	3.2	8.3	8.3	92		128	--				23
8-22-68	25.0	6		3.4	41	3.1	8.0	8.0	94		128	--				15

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-23-68	25.0	7		4.3	51	3.3	3.3	7.8	92		128	--	--	--	--	9
8-24-68	25.0	10		--	--	3.3	3.3	7.8	95		--	--	--	--	--	--
8-25-68	24.0	10		--	--	3.6	3.7	7.7	95		--	--	--	--	--	--
8-26-68	24.0	20		5.1	60	3.7	3.4	8.0	93		132	--	--	--	--	11
8-27-68	23.0	30		6.2	71	3.4	3.3	8.0	94		146	18	--	--	--	7
8-28-68	23.0	25		8.2	96	3.3	3.3	8.4	94		134	--	--	--	--	15
8-29-68	23.0	15		8.5	99	3.3	3.3	8.5	95		130	--	--	--	--	9
8-30-68	23.0	10		8.9	103	3.4	3.4	8.6	93		134	--	--	--	--	9
8-31-68	23.0	15		--	--	3.4	3.4	8.5	94		--	--	--	--	--	--
Aug. Avg.	24.1	10		5.6	65	3.3	3.3	8.1	94		131	16	--	--	--	17
Max.	25.0	35		8.9	103	4.0	4.0	8.6	98		146	18	--	--	--	93
Min.	23.0	5		2.6	30	2.8	2.8	7.7	90		126	14	--	--	--	4
9-1-68	23.0	8		--	--	3.5	3.5	8.7	95		--	--	--	--	--	--
9-2-68	22.0	7		--	--	3.5	3.5	8.4	95		--	--	--	--	--	--
9-3-68	22.0	7		7.3	83	3.3	3.3	8.5	93		136	19	--	--	--	15
9-4-68	22.0	7		6.7	76	3.0	3.0	8.4	92		134	--	--	--	--	9
9-5-68	22.3	8		6.8	77	2.7	2.7	8.4	91		128	--	--	--	--	43
9-6-68	22.0	10		7.2	81	2.5	2.5	8.4	91		134	--	--	--	--	43
9-7-68	22.0	10		--	--	2.4	2.4	8.4	92		--	--	--	--	--	--
9-8-68	21.0	10		--	--	2.5	2.5	8.3	93		--	--	--	--	--	--
9-9-68	22.0	7	275	8.3	95	2.2	2.2	8.6	91	225	138	--	--	--	--	15
9-10-68	22.0	6	265	7.9	90	2.0	2.0	8.6	91	213	132	17	--	--	--	4
9-11-68	21.3	15	254	7.7	86	2.1	2.1	8.5	93	209	132	--	--	--	--	4
9-12-68	20.3	10	250	7.6	83	2.3	2.3	8.4	93	209	132	--	--	--	--	15
9-13-68	21.0	10	254	7.8	87	2.3	2.3	8.4	93	209	134	--	--	--	--	21
9-14-68	21.0	10	--	--	--	2.3	2.3	8.1	94	--	--	--	--	--	--	--
9-15-68	21.0	10	--	--	--	2.3	2.3	8.1	94	--	--	--	--	--	--	--

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-16-68	21.5	7	265	8.1	91	2.3	8.5	93	217	140	--	--	--	--	--	9
9-17-68	21.0	6	265	7.2	80	2.3	8.4	93	218	132	16	16	16	16	16	93
9-18-68	21.0	7	276	7.4	82	2.2	8.4	93	226	134	--	--	--	--	--	23
9-19-68	21.0	8	265	7.5	84	2.3	8.3	93	218	136	--	--	--	--	--	9
9-20-68	21.0	8	265	7.0	78	2.3	8.3	93	218	132	--	--	--	--	--	43
9-21-68	21.0	10	--	--	--	2.4	8.3	95	--	--	--	--	--	--	--	--
9-22-68	21.0	10	--	--	--	2.5	8.3	95	--	--	--	--	--	--	--	--
9-23-68	21.0	15	276	6.2	69	2.3	8.1	95	226	134	--	--	--	--	--	23
9-24-68	21.0	6	276	6.3	70	2.3	8.2	94	226	134	16	16	16	16	16	15
9-25-68	21.0	6	276	6.8	76	2.5	8.1	95	226	134	--	--	--	--	--	23
9-26-68	20.5	5	265	7.2	79	2.4	8.2	93	218	136	--	--	--	--	--	7
9-27-68	20.3	4	265	7.9	87	2.3	8.3	95	218	134	--	--	--	--	--	9
9-28-68	20.5	6	--	--	--	2.4	8.2	96	--	--	--	--	--	--	--	--
9-29-68	20.0	5	--	--	--	2.5	8.1	94	--	--	--	--	--	--	--	--
9-30-68	20.0	6	276	7.9	86	2.3	8.2	95	226	140	--	--	--	--	--	150
Sept. Avg.	21.2	8	267	7.3	82	2.5	8.3	93	219	134	17	17	17	17	17	29
Max.	23.0	15	276	8.3	95	3.5	8.7	95	226	140	19	19	19	19	19	150
Min.	20.0	4	250	6.2	69	2.0	8.1	91	209	128	16	16	16	16	16	4
10-1-68	20.0	6	276	8.0	87	2.4	8.3	94	226	140	20	20	20	20	20	7
10-2-68	20.0	4	276	7.9	86	2.3	8.3	95	226	134	--	--	--	--	--	11
10-3-68	20.0	5	276	8.0	87	2.3	8.2	94	226	137	--	--	--	--	--	15
10-4-68	18.0	6	276	8.7	91	2.2	8.4	95	226	140	--	--	--	--	--	4
10-5-68	17.8	5	--	--	--	2.3	8.1	98	--	--	--	--	--	--	--	--
10-6-68	17.8	5	--	--	--	2.3	8.2	98	--	--	--	--	--	--	--	--
10-7-68	17.0	5	244	8.9	91	2.2	8.3	97	200	132	--	--	--	--	--	43
10-8-68	17.0	4	254	8.7	89	2.0	8.3	96	209	134	16	16	16	16	16	43
10-9-68	17.0	10	265	9.2	94	1.9	8.3	95	218	134	--	--	--	--	--	23

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky -B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-10-68	17.0	7	265	8.7	89	2.0	8.3	95	218	134					43
10-11-68	17.0	6	276	8.9	91	1.9	8.2	93	226	136					23
10-12-68	17.0	10				1.9	8.2	94							
10-13-68	17.0	10				1.9	8.2	95							
10-14-68	17.0	10	276	6.9	71	1.9	8.0	95	226	138					23
10-15-68	17.0	6	276	6.7	69	2.0	8.1	95	226	138	17				43
10-16-68	17.2	7	276	7.7	80	2.0	8.1	95	226	134					36
10-17-68	17.3	7	876	7.2	75	2.0	8.0	95	235	132					460
10-18-68	18.0	7				2.0	8.0	95							
10-19-68	18.0	10				2.1	8.0	95							
10-20-68	18.0	10				2.3	8.1	97							
10-21-68	17.0	8	276	9.0	93	2.2	8.3	95	226	134					43
10-22-68	17.0	5	276	9.4	97	2.2	8.5	97	226	140	17				93
10-23-68	16.0	4	265	9.4	95	2.0	8.5	96	218	136					93
10-24-68	15.5	5	276	9.2	92	2.0	8.5	95	226	128					23
10-25-68	15.0	5	276	9.0	89	1.7	8.5	97	226	134					23
10-26-68	15.0	7				1.8	8.3	99							
10-27-68	14.0	4	276	10.1	97	2.0	8.4	100	226	132					43
10-28-68	13.5	5	297	10.0	93	1.9	8.5	95	244	132	15				43
10-29-68	12.2	4	307	10.3	95	1.8	8.5	98	252	138					23
10-30-68	11.7	6	318	10.3	96	1.8	8.5	98	261	136					4
10-31-68	12.0	6													
Oct. Avg.	16.5	6	272	8.7	89	2.0	8.3	96	227	135	17				53
Max.	20.0	10	318	10.3	97	2.4	8.5	100	261	140	20				460
Min.	11.7	4	244	6.7	71	1.7	8.0	93	200	128	15				4
11-1-68	12.5	5	307	10.4	97	1.8	8.5	97	252	138					43
11-2-68	12.5	5				1.8	8.3	98							

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BII01

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-3-68	12.0	4				1.9	8.2	99		244	136					15
11-4-68	13.0	5	297	10.6	100	1.7	8.6	98		218	134	16				4
11-5-68	13.0	7	265	10.6	100	1.8	8.6	96		261	134					93
11-6-68	13.0	185	318	10.8	102	2.1	8.4	98		244	144					1,100
11-7-68	11.8	270	297			5.4	8.1	97		244	126					240
11-8-68	11.0	110	297	10.2	92	2.8	8.1	95								
11-9-68	11.0	30				3.0	8.2	95								
11-10-68	10.0	20				2.3	8.2	96								
11-11-68	10.0	65	311	10.5	98	2.2	8.2	95		261	128					120
11-12-68	9.8	295	297	9.9	87	3.9	8.0	94		244	134	16				
11-13-68	8.0	160	307	11.2	95	3.3	8.2	99		252	134					1,100
11-14-68	8.5	60	307	11.1	95	2.1	8.2	95		252	130					43
11-15-68	9.0	35	276	11.1	96	1.6	8.2	91		226	128					210
11-16-68	9.0	140				2.3	8.1	94								
11-17-68	9.0	115				2.7	8.1	93								
11-18-68	9.0	60	254	11.1	96	2.3	8.2	92		209	118					460
11-19-68	9.0	30	265	10.9	94	1.8	8.2	90		218	120	13				39
11-20-68	8.0	50	254	11.6	98	1.7	8.2	94		209	118					240
11-21-68	7.0	40	286	11.6	95	1.7	8.2	94		235	120					240
11-22-68	7.3	35	276	11.7	96	1.5	8.2	92		226	122					93
11-23-68	8.0	15				1.7	8.2	91								
11-24-68	9.0	10				1.6	8.4	89								
11-25-68	8.0	10	265	11.7	97	1.3	8.3	89		218	114					43
11-26-68	8.5	8	276	11.8	100	1.1	8.3	90		226	120	14				9
11-27-68	8.0	20	297	11.9	99	1.1	8.3	88		244	116					15
11-28-68	8.0	8				1.2	8.2	91								
11-29-68	8.0	25	276	11.8	99	1.3	8.3	88		226	114					43
11-30-68	8.0	10				1.1	8.3	93								

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BII01

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
Nov. Avg.	9.6	61	286	11.1	97	2.1	8.2	94	235	126	15	15				208
Max.	13.0	295	318	11.9	102	5.4	8.5	99	261	138	16	16				1,100
Min.	7.0	4	254	9.9	87	1.1	8.0	88	209	114	13	13				4
12-1-68	8.0	10				1.2	8.2	96								9
12-2-68	7.5	10	265	12.0	100	1.2	8.3	90	218	116						43
12-3-68	7.5	8	276	12.0	100	1.1	8.3	90	226	118	12	12				150
12-4-68	7.0	25	286	12.0	99	1.3	8.3	92	235	120						23
12-5-68	6.5	30	286	12.1	99	1.3	8.4	93	235	120						23
12-6-68	6.0	30	265	12.4	99	1.5	8.3	90	218	120						23
12-7-68	6.0	10				1.3	8.3	92								
12-8-68	5.0	10				1.3	8.3	93								
12-9-68	4.0	35	276	13.2	100	1.2	8.3	91	226	114	14	14				93
12-10-68	4.5	80	276	12.8	99	1.6	8.2	91	226	120						240
12-11-68	3.0	30	265	13.6	101	1.2	8.2	91	218	110						150
12-12-68	3.0	20	265	13.4	99	1.3	8.3	90	218	120						43
12-13-68	4.0	10	307	13.4	103	1.1	8.4	90	252	118						460
12-14-68	4.0	10				1.2	8.2	91								
12-15-68	4.0	150				2.2	8.1	92								
12-16-68	2.0	160	297	14.1	102	2.2	8.3	93	244	124						240
12-17-68	3.0	70	254	14.2	105	1.0	8.2	93	209	110	11	11				23
12-18-68	2.3	45	244	14.5	105	1.2	8.3	91	200	114						43
12-19-68	2.0	35	276	13.9	100	1.1	8.2	92	226	124						23
12-20-68	4.0	15	265	13.0	100	1.2	8.2	91	218	116						43
12-21-68	3.0	10				1.2	8.1	93								
12-22-68	3.0	30				1.5	8.1	95								
12-23-68	4.0	25	276	13.0	100	1.7	8.2	94	226	122						43
12-24-68	3.0	25	265	13.8	103	1.7	8.2	92	218	116						
12-25-68	2.0	8	265	10.2	74	1.4	8.2	92	218	118						

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BII01

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-26-68	3.0	6					1.4	8.2	91							
12-27-68	3.0	6					1.8	8.3	93							
12-28-68	3.0	5					1.8	8.3	96							
12-29-68	2.0	5					2.1	8.3	95							
12-30-68	2.0	5	254	14.0	101		2.0	8.2	93	209	124					9
12-31-68	2.8	8	297	14.6	107		1.7	8.2	91	244	122	13				23
Dec. Avg.	4.0	30	273	13.1	100		1.4	8.2	92	224	118	12				93
Max.	8.0	160	307	14.6	105		2.2	8.4	90	252	124	14				240
Min.	2.0	5	244	10.2	74		1.0	8.1	96	209	114	11				9

TABLE 4: (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-8-68	21.0	5	311	6.3	70	2.7	8.3	90	265	148	29	27	0.1	0.2		23
7-9-68	21.0	6	271	5.6	61	3.3	8.2	94	227	144						23
7-10-68	21.5	6	271	6.2	69	3.6	8.2	92	227	148						43
7-11-68	21.5	7	291	6.3	70	3.3	8.4	91	243	142						93
7-12-68	21.5	5	311	6.2	69	3.2	7.9	94	261	140						93
7-15-68	21.5	3	311	4.3	49	3.9	7.9	92	261	144	21	27	0.1	0.5		75
7-16-68	22.0	3	291	3.7	42	4.1	8.1	94	243	160						75
7-17-68	22.5	3	311	2.5	28	3.8	7.9	96	261	146						43
7-18-68	22.0	2	311	2.2	24	4.1	7.9	94	261	152						43
7-19-68	23.0	3	311	5.0	57	3.8	8.1	94	261	144						43
7-22-68	22.0	3	311	2.0	22	3.3	7.8	94	261	140	20	27	0.1	0.2		43
7-23-68	23.0	3	311	6.9	80	3.9	8.5	95	261	138						9
7-24-68	23.0	4	191	5.4	62	3.6	8.4	94	243	156						23
7-25-68	24.0	4	291	7.0	82	4.4	8.6	94	243	154						93
7-26-68	24.0	5	311	8.9	105	3.4	8.8	91	261	160						20
7-29-68	23.0	4	311	9.0	104	3.7	8.9	93	261	168						0
7-30-68	23.0	5	311	6.9	80	3.0	8.6	94	261	152	27	26	0.05	0.2		93
7-31-68	23.5	3	311	7.3	86	3.3	8.5	94	261	142						150
July Avg.	22.4	4	297	5.7	64	3.6	8.3	93	253	149	24	27	0.08	0.28		55
Max.	24.0	7	311	9.0	104	4.4	8.9	96	265	168	29	27	0.10	0.50		150
Min.	21.0	2	271	2.0	22	2.7	7.8	90	227	138	20	26	0.05	0.20		0
8-1-68	23.0	3	311	6.2	70	2.2	8.4	95	261	146						21
8-2-68	24.0	3	311	6.9	80	3.9	8.3	94	261	174						150
8-5-68	25.0	2	311	4.0	48	3.2	7.9	96	261	160						460
8-6-68	27.0	2	311	3.8	47	4.2	7.9	97	261	179						150
8-8-68	27.0	2	311	5.1	63	5.1	8.0	95	261	154						3
8-9-68	26.0	2	311	4.1	49	5.1	7.8	99	261	150						460

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-10-68	25.0	1	291	6.5	78	5.2	8.2	95	243	148	43					43
8-12-68	24.0	4	311	8.0	95	4.4	8.4	96	261	160	43					43
8-13-68	24.0	2	311	5.0	59	4.6	7.9	97	261	160	93					93
8-14-68	25.0	2	311	5.7	69	4.1	8.3	96	261	156	15					15
8-15-68	25.0	3	311	6.2	74	4.2	8.3	91	261	148	93					93
8-16-68	26.0	4	311	3.8	46	4.1	8.3	91	261	130	21					21
8-19-68	25.0	3	311	6.1	73	3.9	8.3	91	261	140	9	28	15	0.12	0.20	9
8-21-68	25.0	3	311	6.8	81	2.9	--	--	261	146	23					23
8-22-68	25.0	2	321	5.7	68	4.0	8.2	92	268	148	21					21
8-23-68	26.0	2	311	7.3	90	3.4	8.3	92	261	146	9					9
8-26-68	23.0	2	311	5.1	59	4.8	8.1	94	261	166	20					20
8-27-68	22.0	3	291	6.2	70	4.0	7.9	95	243	148	29	22	25	0.12		29
8-28-68	23.0	3	311	7.8	70	3.0	8.3	96	261	140	75					75
8-29-68	22.0	3	291	9.2	104	3.2	8.9	97	243	164	460					460
8-30-68	22.0	3	311	7.9	90	3.5	8.6	96	261	156	15					15
Aug. Avg.	24.5	3	309	6.1	71	4.0	8.2	95	259	153	105	25	20	0.12	0.20	105
Max.	27.0	4	311	9.2	104	5.2	8.9	99	268	179	460	28	25	0.12	0.20	460
Min.	22.0	1	291	3.8	46	2.2	7.9	91	243	130	3	22	15	0.12	0.20	3
9-2-68	22.0	2	311	5.7	65	4.0	8.5	92	261	154	0					0
9-3-68	21.0	3	291	6.1	68	4.2	8.5	92	243	142	1,100	25	27	0.30	0	1,100
9-4-68	22.0	3	331	7.0	79	3.8	8.4	89	261	142	240					240
9-5-68	23.0	3	311	5.8	67	4.2	8.2	94	261	138	93					93
9-6-68	22.0	2	291	7.0	79	3.3	8.8	91	243	164	0					0
9-9-68	22.0	2	331	7.3	83	4.1	8.4	95	261	158	43	28	25	0.18		43
9-10-68	22.0	3	311	6.8	77	3.6	8.6	99	261	182	43					43
9-11-68	21.0	2	291	7.3	81	4.3	8.5	96	243	158	240					240
9-12-68	19.5	2	291	7.7	83	3.3	8.4	95	243	148	460					460

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-13-68	21.0	2	311	7.5	83	3.0	8.5	94	261	168	20	29	0.15	0	460
9-16-68	21.0	6	311	6.1	68	3.3	8.1	92	261	146					240
9-17-68	21.0	3	311	5.2	58	3.3	8.2	97	261	160					2,400
9-18-68	21.0	4	311	6.6	73	3.9	8.0	98	261	150					93
9-19-68	22.0	5	311	6.9	78	5.2	8.5	98	261	160					15
9-23-68	22.0	5	311	6.1	70	3.7	8.4	99	261	168					9
9-24-68	22.0	5	311	6.1	70	4.0	8.4	96	261	162					150
9-25-68	21.0	3	311	6.2	69	4.1	8.0	96	261	162	20	32	0.11	0	240
9-26-68	21.0	5	311	6.1	68	3.5	8.3	99	261	154					75
9-27-68	21.0	5	311	8.0	89	4.2	8.4	97	261	166					75
9-30-68	19.0	3	291	7.5	80	2.6	8.0	100	243	152	15	34	0.10		93
Sept. Avg.	21.3	3	308	6.7	74	3.8	8.4	95	257	157	22	29	0.17	0	303
Max.	22.0	6	331	8.0	89	5.2	8.8	100	261	182	28	25	0.30	0	2,400
Min.	19.0	2	291	5.2	58	2.6	8.0	89	243	138	18	34	0.10	0	0
10-1-68	20.0	3	291	7.3	80	3.2	8.5	98	243	154					0
10-2-68	20.0	3	291	7.1	77	4.3	8.4	96	243	154					0
10-3-68	19.0	3	291	6.9	75	4.3	8.4	94	243	152					93
10-4-68	18.0	4	291	7.1	75	2.0	8.4	97	243	168					460
10-7-68	17.0	3	291	8.0	82	3.4	8.3	95	243	162					43
10-8-68	18.0	3	291	7.9	83	3.6	8.4	97	243	154					480
10-9-68	17.0	3	291	9.2	95	3.7	8.2	107	243	156	20	24	0.09	0	460
10-10-68	17.0	7	291	7.9	80	3.2	8.7	100	243	158					43
10-11-68	17.0	3	291	8.2	85	2.3	8.5	97	243	156					93
10-14-68	17.0	3	291	7.6	78	2.6	7.9	98	243	156	20	28	0.09	0	93
10-15-68	17.0	3	311	6.8	69	1.9	8.1	99	261	148					78
10-16-68	17.0	3	311	7.9	80	2.1	8.2	98	261	158					460

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn.	T. Coll.
10-17-68	18.0	4	311	6.5	67	2.4	8.2	100	261	152	29					29
10-18-68	17.0	3	311	6.8	69	3.5	8.0	98	261	160	75					75
10-21-68	16.0	2	311	8.5	85	3.3	8.1	99	261	150	0	20	28	0.05	0	1,100
10-22-68	16.0	5	311	8.7	87	2.1	8.6	96	261	164						21
10-23-68	15.0	3	291	9.0	89	3.0	8.4	100	243	152						240
10-24-68	15.0	3	291	8.2	80	3.0	8.6	98	243	160	43					43
10-25-68	15.0	4	291	7.6	78	2.7	8.5	99	243	162						1,100
10-28-68	12.5	2	311	9.5	88	2.6	8.2	99	261	150	0	24	22	0.02	0	1,100
10-29-68	12.0	5	291	9.2	84	3.1	8.5	99	243	158						93
10-30-68	11.0	3	311	10.2	92	2.2	8.2	94	261	154						2,400
10-31-68	12.5	3	311	9.5	88	1.7	8.6	98	261	158	93					93
Oct. Avg.	16.2	3	299	8.1	81	2.8	8.3	98	250	156		21	25	0.06	0	380
Max.	20.0	7	311	10.2	95	4.3	8.7	107	261	168		24	28	0.09	0	2,400
Min.	11.0	3	291	6.5	67	1.7	7.9	94	243	148		20	22	0.02	0	0
11-1-68	14.0	3	311	10.2	98	1.6	8.8	98	261	158						15
11-4-68	14.0	2	291	10.4	100	.8	8.4	94	243	155		22	29	0.10	0	23
11-5-68	14.0	3	291	9.5	91	2.6	8.6	96	243	152						460
11-6-68	13.0	6	311	10.1	95	2.0	8.6	98	261	170						1,100
11-7-68	12.0	5	291	9.4	87	2.5	8.5	97	243	166						1,100
11-8-68	11.0	6	291	9.3	83	2.3	8.3	95	243	162						240
11-11-68	10.0	4	291	10.5	93	2.6	8.3	97	243	162						1,100
11-12-68	10.0	17	311	10.6	94	.9	8.3	97	261	158		19	24	0.20	0	1,100
11-13-68	8.0	41	291	11.5	97	1.5	8.0	93	243	158						240
11-14-68	9.0	30	291	11.3	97	1.9	8.2	95	243	158						460
11-15-68	9.0	22	212	11.2	96	2.2	8.2	94	174	158						1,100
11-18-68	9.0	25	311	11.1	95		8.2	94	261	134		22	25	0.30	0	240
11-19-68	8.0	27	311	11.1	94	1.2	8.1	91	261	152						460

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-20-68	8.0	27	311	12.0	101	1.6	7.8	100	261	152	2,400					
11-21-68	8.0	22	311	11.8	99	2.4	8.4	96	261	142	460					
11-22-68	8.0	15	311	11.7	98	2.2	8.2	92	261	140	240					
11-25-68	9.0	7	291	11.6	100	1.8	8.3	87	243	116	240	15	28	0.10	0	
11-26-68	8.0	7	291	11.8	99	1.5	8.4	90	243	166	2,400					
11-27-68	8.0	7	272	12.1	102	1.3	8.2	91	225	120	93					
11-28-68	10.0	9	291	12.2	107	1.5	8.3	92	243	146	1,100					
11-29-68	8.0	13	272	12.0	101	1.4	8.3	89	225	164	1,100					
Nov. Avg.	9.5	14	293	11.0	97	1.7	8.3	94	245	152	735	20	27	0.18	0	
Max.	14.0	41	311	12.2	107	2.6	8.8	100	261	170	2,400	22	29	0.30	0	
Min.	8.0	3	212	9.3	83	.8	7.8	87	174	116	15	15	24	0.10	0	
12-2-68	9.0	9	291	12.1	105	1.6	8.4	93	243	154	1,100	18	20	0.13	0	
12-3-68	8.0	9	291	12.1	103	1.6	8.2	92	243	162	460					
12-4-68	7.0	9	291	12.4	103	1.2	8.2	91	243	134	1,100					
12-5-68	6.0	15	291	12.4	100	1.1	8.5	88	243	136	1,100					
12-6-68	5.0	20	291	12.9	101	1.0	8.4	90	243	148	1,100					
12-9-68	6.0	9	291	14.5	115	0.9	8.3	90	243	146	23	20	26	0.11	0	
12-10-68	6.0	15	272	14.4	114	0.7	8.3	91	225	134	1,100					
12-11-68	5.0	9	291	13.9	109	0.9	8.3	91	243	136	240					
12-12-68	5.0	10	291	14.0	109	0.8	8.3	92	243	160	460					
12-13-68	5.0	7	311	13.8	108	1.0	8.2	90	261	162	150					
12-16-68	3.0	50	291	14.5	107	1.0	8.0	92	243	148	43	24	26	0.35	0	
12-17-68	2.0	30	291	15.1	108	0.8	8.1	94	243	144	1,100					
12-18-68	3.0	20	291	13.8	102	0.8	8.1	96	243	162	2,400					
12-19-68	4.0	25	311	14.1	106	1.0	8.1	94	261	136	240					
12-20-68	3.0	15	272	14.2	105	0.9	8.1	92	225	178	240					

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-23-68	3.0	15	291	13.7	102	0.9	8.1	92	243	136	17	22	0.18	0	1,100
12-24-68	3.0	9	291	14.2	105	1.7	8.2	89	243	138					93
12-26-68	3.0	4	291	14.5	107	1.8	8.0	90	243	134					93
12-27-68	4.0	5	311	14.5	110	1.7	8.0	93	261	143					93
12-30-68	2.0	15	291	14.9	108	1.0	8.0	93	243	152	26	18	0.19		1,100
12-31-68	3.0	55	291	14.7	108	1.7	7.9	84	243	160					1,100
Dec. Avg.	4.5	15	292	13.8	106	1.1	8.2	91	244	148	21	22	0.19	0	687
Max.	9.0	55	311	15.1	115	1.8	8.5	96	261	178	26	26	0.35	0	2,400
Min.	2.0	7	272	12.1	100	0.7	7.9	84	225	134	17	18	0.11	0	23

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	21.1	20	235	7.3	81	0.6	8.3	95	124		124		24			2,400
7-2-68	21.1	20	240	7.6	85	0.5	8.3	100	122		122					1,100
7-3-68	21.1	40	235	7.6	85	0.4	8.3	100	124		124					2,400
7-4-68	21.1	30	245	7.4	83	0.6	8.3	95	126		126					4,600
7-5-68	21.1	20	250	6.9	77	0.4	8.1	100	126		126					240
7-6-68	21.1	20	250	7.8	87	0.4	8.3	100	123		123					480
7-7-68	21.1	20	240	6.0	66	0.4	7.8	95	120		120					240
7-8-68	20.0	20	230	5.2	56	0.8	7.7	90	124		124					480
7-9-68	20.6	20	225	5.5	56	0.2	7.7	95	122		122					210
7-10-68	21.7	20	126	6.4	71	0.8	8.0	95	126		126					210
7-11-68	21.1	20	225	6.2	68	0.9	8.0	90	125		125					240
7-12-68	20.6	20	225	5.9	65	0.5	7.9	100	124		124	25				280
7-13-68	20.0	20	230	5.4	58	0.1	7.9	90	120		120					39
7-14-68	20.0	20	235	5.3	57	0.2	7.7	90	126		126					110
7-15-68	22.2	20	230	6.7	75	0.7	8.1	95	120		120					150
7-16-68	22.8	20	230	7.0	80	0.3	7.9	95	124		124					93
7-17-68	22.2	20	230	7.2	81	0.6	8.3	100	118		118					43
7-18-68	23.3	20	235	6.4	74	0.9	8.1	100	126		126					240
7-19-68	23.9	30	235	6.8	80	1.3	8.3	95	126		126	24				390
7-20-68	23.9	10	235	6.4	75	0.8	8.2	95	--		--			0.48	0.0	93
7-21-68	23.1	20	225	4.6	53	1.0	7.9	90	--		--	21				240
7-22-68	23.1	20	230	3.6	42	1.0	7.7	95	--		--					210
7-23-68	23.3	30	235	6.3	73	1.0	8.2	100	--		--					290
7-24-68	23.3	20	235	5.5	63	1.0	8.0	100	123		123					23
7-25-68	23.3	20	235	6.0	69	1.2	8.1	100	121		121					150
7-26-68	23.3	20	235	5.8	67	1.2	8.2	100	120		120					39
7-27-68	23.3	10	225	4.1	47	1.5	7.8	95	120		120	26		0.33	0.0	2,400
7-28-68	23.3	20	225	6.3	73	1.0	8.4	95	122		122		25			4,600
7-29-68	23.3	20	225	6.0	69	1.2	8.4	95	122		122		25			240

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	ph	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-30-68	23.3	10	225	7.1	82	0.6	8.4	95			120					23
7-31-68	23.3	20	215	7.0	81	1.1	8.4	90			122					1,100
July Avg.	22.1	20	229	6.2	70	0.7	8.1	96			123	24	25	0.41	0.0	753
Max.	23.9	40	250	7.8	87	1.5	8.4	100			126	26	25	0.48	0.0	4,600
Min.	20.0	10	126	3.6	42	0.1	7.7	90			118	21	24	0.33	0.0	23
8-1-68	23.0	20	230	6.5	75	1.6	8.3	95			119		25			24
8-2-68	23.0	10	220	7.0	80	0.6	8.4	95			124					200
8-3-68	23.0	10	230	6.9	79	1.2	8.1	95			122	23	24	0.20	0	240
8-4-68	23.0	10	230	6.6	76	1.0	8.4	95			122					39
8-5-68	23.5	20	225	5.4	63	1.2	8.3	100			122					150
8-6-68	24.0	20	225	6.2	73	1.1	8.3	100			126					460
8-7-68	24.5	10	220	5.0	59	1.6	8.2	100			124					240
8-8-68	24.5	20	220	4.3	50	1.4	8.0	100			124	27	25	0.25	0	150
8-9-68	25.0	20	220	5.1	60	1.4	8.0	100			124					240
8-10-68	24.5	20	225	5.1	60	0.9	8.3	100			120		25			1,100
8-11-68	24.0	30	225	5.7	67	1.2	8.1	95			124					460
8-12-68	23.5	20	225	5.3	61	1.3	8.1	100			124					150
8-13-68	23.5	15	230	5.1	59	1.3	8.0	100			126					290
8-14-68	25.0	20	230	6.3	75	0.8	8.3	100			124					2,400
8-15-68	26.0	15	225	6.3	76	1.0	8.3	100			124					460
8-16-68	26.0	15	220	5.5	66	1.2	8.1	100			126					150
8-17-68	25.0	20	200	6.1	72	1.0	8.2	90			118	29	24	0.47	0	240
8-18-68	25.0	20	215	6.1	72	0.7	8.4	95			118					2,400
8-19-68	25.0	20	225	4.9	58	1.0	8.2	100			120					2,400
8-20-68	25.0	15	225	6.0	70	1.2	8.4	100			120					240
8-21-68	25.0	20	225	6.6	78	1.2	8.4	100			126					15
8-22-68	25.0	20	225	5.7	68	0.8	8.3	95			122					43

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
8-23-68	25.0	20	225	6.3	75	0.7	8.4	100	124	23	0.31	0	700			
8-24-68	25.0	10	225	6.5	77	1.0	8.4	95	120	23	0.31	0	2,400			
8-25-68	26.0	20	230	5.6	67	1.1	8.3	95	128	23	0.31	0	1,100			
8-26-68	25.0	25	225	6.0	72	1.1	8.3	95	122	23	0.31	0	1,100			
8-27-68	24.0	30	220	6.6	77	0.8	8.4	100	122	23	0.31	0	460			
8-28-68	24.0	25	220	6.4	75	0.8	8.4	95	122	23	0.31	0	210			
8-29-68	23.0	15	220	6.4	73	1.9	8.4	90	124	23	0.31	0	240			
8-30-68	23.0	20	220	6.3	72	1.7	8.4	95	124	23	0.31	0	2,100			
8-31-68	22.0	20	220	7.5	86	1.4	8.4	95	126	23	0.31	0	4,600			
Aug. Avg.	23.5	20	223	6.2	70	1.1	8.3	97	123	23	0.31	0	806			
Max.	26.0	30	230	7.5	86	1.9	8.4	100	128	23	0.47	0	2,400			
Min.	22.0	10	200	4.3	50	0.6	8.0	90	118	23	0.20	0	15			
9-1-68	23.0	20	225	7.5	86	1.3	8.4	90	124	23	0.43	Trace	1,100			
9-2-68	22.0	25	220	7.5	85	1.8	8.4	95	128	23	0.43	Trace	1,100			
9-3-68	22.0	20	215	7.7	87	1.2	8.4	100	123	23	0.43	Trace	11,000			
9-4-68	23.0	20	220	8.0	92	1.2	8.4	100	124	23	0.43	Trace	1,100			
9-5-68	24.0	20	220	6.9	80	1.8	8.4	100	124	23	0.43	Trace	240			
9-6-68	24.0	20	210	7.7	90	1.8	8.4	90	123	23	0.43	Trace	240			
9-7-68	23.0	20	200	6.9	80	1.4	8.4	90	125	23	0.43	Trace	1,500			
9-8-68	23.0	20	220	8.4	97	1.1	8.4	100	128	23	0.43	Trace	750			
9-9-68	22.0	20	225	6.8	76	1.3	8.4	100	128	23	0.43	Trace	11,000			
9-10-68	22.0	20	225	6.0	67	1.5	8.1	100	128	23	0.43	Trace	230			
9-11-68	22.0	20	220	6.9	77	2.1	8.3	100	126	23	0.43	Trace	11,000			
9-12-68	20.0	20	225	7.5	81	1.2	8.1	95	122	23	0.43	Trace	4,600			
9-13-68	20.0	20	225	8.0	87	1.2	8.2	100	120	23	0.43	Trace	4,600			
9-14-68	21.0	20	225	7.7	85	1.5	8.3	95	128	23	0.43	Trace	350			
9-15-68	22.0	20	220	7.6	85	1.4	8.2	95	130	23	0.43	Trace	93			

TABLE 4. (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermillion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-16-68	21.0	25	225	6.7	74	1.6	8.1	95			132					150
9-17-68	21.0	20	225	6.0	65	1.6	8.1	95			130					1,500
9-18-68	22.0	20	220	6.3	70	1.9	8.2	100			132					1,200
9-19-68	21.0	20	225	7.6	84	2.0	8.2	100			132					390
9-20-68	21.0	20	225	7.2	79	1.4	8.1	100			134		25			11,000
9-21-68	22.0	20	225	7.8	88	1.7	8.2	100			132	23		0.40	Trace	460
9-22-68	23.0	20	225	7.6	88	1.4	8.3	95			130					530
9-23-68	22.0	20	225	6.3	70	1.3	8.1	95			132					210
9-24-68	22.0	20	225	7.6	85	1.4	8.1	95			132					2,400
9-25-68	22.0	15	220	6.8	76	1.3	8.1	100			132					150
9-26-68	21.0	15	220	6.6	73	0.8	8.3	90			132					43
9-27-68	21.0	15	200	7.6	85	1.6	8.3	100			130		23	0.43	Trace	43
9-28-68	21.0	20	225	7.0	78	1.2	8.3	100			128	23				150
9-29-68	20.5	20	225	8.1	90	1.2	8.4	95			128					240
9-30-68	20.0	20	225	8.1	88	0.7	8.3	100			130					240
Sept. Avg.	21.8	20	214	7.3	82	1.4	8.3	97			128	24	25	0.43	0	2,254
Max.	24.0	25	225	8.4	90	2.1	8.4	100			134	26	28	0.45	0	11,000
Min.	20.0	15	200	6.0	65	0.7	8.1	90			120	23	23	0.40	0	43
10-1-68	20.0	20	225	8.3	91	1.3	8.3	95			128					72
10-2-68	20.0	20	230	8.0	87	0.9	8.3	100			130					140
10-3-68	20.0	20	230	7.6	83	1.2	8.3	100			130					43
10-4-68	18.0	20	240	8.2	86	1.3	8.1	100			130		25			93
10-5-68	16.0	20	210	8.3	83	1.1	8.2	100			132	25		0.43	0	15
10-6-68	16.0	20	220	8.2	82	1.4	8.1	100			134					150
10-7-68	16.0	20	215	8.4	84	1.6	8.3	100			134					43
10-8-68	16.0	20	215	8.6	86	1.1	8.3	100			132					240
10-9-68	17.0	20	215	9.1	94	1.5	8.2	100			134					150

TABLE A (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
10-10-68	17.0	20	225	8.8	95	1.6	8.3	95	130		130		25			11,000
10-11-68	17.0	20	225	8.5	87	1.3	8.1	100	130		130	23		0.27	0	24,000
10-12-68	17.0	20	220	9.0	93	1.2	8.3	95	130		130					24,000
10-13-68	17.0	20	220	8.5	87	0.6	8.1	95	134		134					1,100
10-14-68	18.0	20	225	9.5	100	1.2	8.1	95	134		134					1,100
10-15-68	19.0	20	225	8.6	93	0.8	8.3	90	130		130					24,000
10-16-68	19.0	20	220	8.8	95	0.9	8.1	95	130		130					290
10-17-68	19.0	20	225	7.7	83	0.9	8.1	90	134		134		26			11,000
10-18-68	19.0	20	225	8.1	86	1.1	8.1	95	130		130	23		0.30	0	390
10-19-68	18.0	20		8.1	85	1.2	8.0	95	132		132					1,500
10-20-68	18.0	20	230	8.6	90	1.5	8.3	95	134		134					750
10-21-68	17.0	20	230	8.8	90	1.0	8.1	100	132		132					75
10-22-68	17.0	20	230	9.2	94	1.0	8.1	100	130		130					200
10-23-68	16.0	20	230	9.0	90	1.5	8.3	95	132		132					460
10-24-68	16.0	20	230	8.9	89	1.3	8.3	100	132		132		25	0.55	0	43
10-25-68	15.0	15	215	9.3	92	1.6	8.3	100	134		134					240
10-26-68	14.0	15	230	9.2	89	1.8	8.3	100	134		134					200
10-27-68	12.0	20	210	9.4	86	1.2	8.3	95	132		132					150
10-28-68	12.0	20	210	9.7	89	1.1	8.1	100	134		134					43
10-29-68	12.0	20	225	9.8	90	1.1	8.2	100	134		134					140
10-30-68	12.0	20	225	10.1	94	1.3	8.1	100	134		134					2,400
10-31-68	12.0	20	225	9.8	90	1.5	8.3	100	134		134					
Oct. Avg.	16.5	20	223	8.8	89	1.2	8.2	97	132		132	24	25	0.39	0	3,378
Max.	20.0	20	240	10.1	100	1.6	8.3	100	134		134	25	26	0.55	0	21,000
Min.	12.0	15	210	7.6	82	0.8	8.0	90	128		128	23	25	0.27	0	15
11-1-68	12.0	20	225	9.3	85	0.9	8.1	95	134		134		25	0.39	0	460
11-2-68	13.0	20	210	9.5	89	1.4	8.0	100	134		134	24				75

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermillion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-3-68	14.0	20	225	9.6	93	1.1	8.1	100	134	43						240
11-4-68	14.0	20	225	10.0	107	1.2	8.4	100	132	240						4,600
11-5-68	14.0	20	225	9.6	93	0.4	8.3	100	130	2,400						2,400
11-6-68	14.0	20	225	10.0	107	1.5	8.3	100	132	2,400						1,100
11-7-68	14.0	30	225	9.6	93	0.9	8.1	100	132	25						1,100
11-8-68	13.0	30	225	9.2	96	1.0	8.1	95	132	0.72	0					1,100
11-9-68	9.4	50	225	9.8	85	1.5	8.1	100	146							240
11-10-68	10.0	30	225	10.0	98	1.1	8.0	100	144							1,500
11-11-68	9.0	30	230	10.5	90	1.4	8.0	100	140							11,000
11-12-68	10.0	30	230	10.5	93	1.2	8.0	100	132							750
11-13-68	9.3	60	225	11.0	95	1.2	8.0	100	128							240
11-14-68	8.0	50	230	11.2	94	0.9	8.0	100	130							1,100
11-15-68	8.0	30	225	11.0	93	1.4	8.0	100	142	0.90	0					1,500
11-16-68	8.0	90	220	11.0	93	1.5	8.0	100	134							11,000
11-17-68	9.0	80	210	11.1	96	1.3	8.1	100	138							4,600
11-18-68	9.0	90	220	10.6	91	1.1	8.1	100	136							240
11-19-68	8.5	80	215	10.8	92	1.2	7.8	100	138							460
11-20-68	10.0	80	220	11.1	98	1.1	7.8	95	136							460
11-21-68	9.0	90	225	11.6	100	1.4	7.7	90	130							93
11-22-68	10.0	70	225	11.4	101	1.3	7.8	95	128							1,100
11-23-68	10.0	60	210	11.2	99	1.1	7.8	90	128	0.53	0					750
11-24-68	11.0	30	225	11.0	99	1.0	8.0	95	130							43
11-25-68	11.0	20	225	11.0	99	1.0	8.1	90	130							460
11-26-68	11.0	20	225	11.0	99	1.2	8.2	100	130							1,100
11-27-68	10.0	30	225	11.5	102	1.3	8.2	90	120							240
11-28-68	9.5	30	220	11.7	103	1.1	8.2	95	130							460
11-29-68	8.5	30	220	11.2	96	1.0	8.2	95	128	0.70	0					4,600
11-30-68	7.4	30	225	11.8	98	1.6	7.8	90	128							

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
Nov. Avg. Max. Min.	10.5	43	223	10.6	96	1.2	8.0	94	133	23	25	0.64	0	1,796		
	14.0	90	230	11.8	107	1.6	8.4	100	146	24	26	0.90	0	11,000		
	7.4	20	210	9.2	85	0.9	7.7	90	120	22	24	0.34	0	43		
12-1-68	7.4	30	230	11.0	92	0.9	7.8	100	138					4,600		
12-2-68	6.7	50	225	12.0	98	1.1	8.0	95	130					4,600		
12-3-68	7.0	20	200	11.9	97	1.0	8.2	100	130					460		
12-4-68	7.0	30	215	12.0	98	1.1	8.3	100	128					1,500		
12-5-68	7.0	40	210	11.2	93	1.1	8.3	100	132					460		
12-6-68	7.0	30	200	12.3	100	0.9	8.2	95	132		23			240		
12-7-68	6.5	70	200	11.8	97	1.5	8.0	95	130	23		1.00	0	200		
12-8-68	5.0	40	195	12.2	96	0.8	8.1	100	130					460		
12-9-68	6.0	40	200	12.3	98	1.3	7.8	95	130					280		
12-10-68	6.0	40	210	12.5	100	1.2	7.8	100	132					1,100		
12-11-68	5.5	40	200	12.2	97	1.1	8.0	100	130					2,100		
12-12-68	5.0	40	210	12.0	95	1.2	8.2	100	132					1,500		
12-13-68	5.0	40	200	11.0	86	1.4	7.8	95	130			19	23	0.93	0	
12-14-68	5.1	30	200	12.0	95	1.9	8.1	90	134					240		
12-15-68	3.2	30	200	13.0	98	1.2	8.0	95	128					93		
12-16-68	2.8	40	220	13.2	98	0.2	8.1	90	128					28		
12-17-68	1.8	90	225	13.0	94	0.3	8.0	90	130					1,100		
12-18-68	1.8	40	215	13.5	98	0.9	8.0	100	130					1,500		
12-19-68	1.8	40	225	13.0	94	1.2	8.0	95	130					2,100		
12-20-68	1.8	40	215	13.5	98	1.1	7.8	100	130			23		460		
12-21-68	2.5	40	200	13.4	99	1.0	8.0	95	118			23		29	0	
12-22-68	2.0	40	225	13.4	97	0.9	8.0	100	126					460		
12-23-68	2.2	40	200	13.4	98	0.8	8.0	100	130					93		
12-24-68	2.3	30	200	13.5	99	1.0	8.0	100	128					93		
12-25-68	1.8	30	200	13.6	98	1.3	8.0	100	136					240		

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-26-68	1.8	30	190	13.5	97	1.0	8.1	95			128					93
12-27-68	2.2	30	215	13.3	97	1.4	8.0	95			132					2,100
12-28-68	2.2	30	200	13.4	98	1.2	8.0	95			132	19	20	0.73	0	1,130
12-29-68	2.1	30	215	13.0	95	1.2	8.0	100			130					240
12-30-68	1.9	40	225	13.5	98	1.5	7.9	100			138					460
12-31-68	2.1	40	210	13.4	98	1.4	7.7	95			138					1,100
Dec. Avg.	3.9	32	209	12.7	97	0.7	8.0	97			130	21	22	0.87	0	973
Max.	7.4	90	230	13.6	100	1.5	8.3	100			138	23	23	1.00	0	4,600
Min.	1.8	20	190	11.0	86	0.2	7.7	90			118	19	20	0.73	0	28

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
7-1-68	19.9	8	259	--	--	1.1	8.8	8.8	89	124	124	--	24	--	--	593
7-2-68	20.8	5	258	--	--	1.4	8.8	8.8	89	124	124	--	--	--	0.01	17
7-3-68	20.9	10	257	--	--	1.9	8.9	8.9	90	125	125	--	--	--	--	1,230
7-5-68	20.0	4	--	7.2	77	1.6	8.7	8.7	89	126	126	27	24	0.1	--	223
7-8-68	19.9	3	259	7.1	76	1.5	8.5	8.5	91	124	124	--	--	--	--	700
7-9-68	20.5	3	252	7.4	80	1.8	8.7	8.7	90	124	124	--	25	--	--	300
7-10-68	--	5	--	--	--	1.6	8.7	8.7	--	--	--	--	--	--	--	700
7-11-68	19.9	5	251	--	--	2.2	8.6	8.6	90	125	125	25	25	0.2	0.01	200
7-12-68	20.0	5	255	5.8	63	2.2	8.5	8.5	91	126	126	--	26	--	--	200
7-15-68	22.1	4	270	6.9	77	1.9	8.3	8.3	91	124	124	--	--	--	--	200
7-16-68	23.4	4	271	7.9	92	1.9	8.8	8.8	90	123	123	23	26	0.1	0.01	400
7-17-68	23.3	4	269	7.8	90	2.1	8.7	8.7	91	123	123	--	25	--	--	100
7-18-68	23.3	6	278	7.1	82	1.8	8.3	8.3	--	--	--	--	--	--	--	100
7-19-68	23.4	20	270	7.1	82	1.2	8.8	8.8	90	125	125	--	24	--	--	300
7-22-68	23.9	10	281	--	--	1.4	8.7	8.7	90	126	126	--	26	--	--	207
7-23-68	23.8	6	--	--	--	1.2	8.6	8.6	--	--	--	--	--	--	--	197
7-24-68	24.0	5	--	--	--	1.6	8.4	8.4	92	--	--	--	--	--	--	93
7-25-68	24.0	5	--	--	--	1.6	8.6	8.6	--	--	--	--	--	--	--	211
7-26-68	23.6	4	291	6.9	80	1.7	8.5	8.5	90	126	126	21	25	0.1	0.02	72
7-29-68	23.4	10	288	--	--	1.9	8.8	8.8	92	--	--	--	--	--	--	94
7-30-68	23.5	5	--	--	--	2.0	8.8	8.8	--	--	--	--	--	--	--	40
7-31-68	23.1	5	277	7.5	86	1.7	8.7	8.7	91	123	123	24	23	0.1	0.00	40
July Avg.	22.2	6	268	7.2	80	1.7	8.6	8.6	90	125	125	24	25	0.1	0.01	283
Max.	24.0	20	291	7.9	92	2.2	8.9	8.9	92	126	126	27	26	0.2	0.02	1,230
Min.	19.9	3	251	5.8	63	1.1	8.3	8.3	89	123	123	21	23	0.1	0.00	17
8-1-68	23.2	4	--	--	--	2.2	8.8	8.8	--	--	--	--	--	--	--	40
8-2-68	--	3	--	--	--	2.3	8.5	8.5	--	--	--	--	--	--	--	51

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-5-68	23.8	2		278	7.9	92	2.1	8.7	85			117					51
8-6-68	24.2	3		271	--	--	2.0	8.7	--								72
8-7-68	24.9	3		292	7.1	85	1.3	8.7	88			124					189
8-8-68	25.5	2		296	6.6	80	1.2	8.8	90			113	22	27	0.05		158
8-9-68	25.1	2		295	6.8	81	1.8	8.6	88			124					93
8-12-68	24.0	3		280	6.5	75	2.0	8.4	88			126					230
8-13-68	23.9	3		280	6.7	78	2.2	8.5	92			128					9
8-14-68	24.2	2		290	6.6	77	2.2	8.7	90			126					9
8-15-68	24.1	3		280	6.5	76	1.9	8.7	90			130					150
8-16-68		4					1.9	8.7									367
8-19-68		5	5				3.6	8.5									40
8-20-68		8	1				2.7	8.8									100
8-21-68		7	3				2.6	8.7									122
8-22-68		7	3				2.4	8.8									77
8-27-68		20					3.4	8.5									100
8-30-68	22.9	3					2.3	8.6	91			123		24			127
Aug. Avg.	24.2	5	3	286	6.9	81	2.3	8.7	89			123	22	26	0.05		110
Max.	25.5	20	5	296	7.9	92	3.4	8.8	92			130	22	27	0.05		367
Min.	23.2	2	1	271	6.5	75	1.2	8.4	85			117	22	24	0.05		9
9-2-68		6					1.9	8.6									--
9-3-68		4					1.8	8.7									131
9-4-68		4					1.8	8.6									37
9-5-68		4					1.8	8.7									--
9-6-68		15					1.7	8.8									--
9-9-68		4					1.5	8.8									20
9-10-68		4					1.6	8.7									60
9-11-68		3					2.5	8.6									40

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
9-12-68		30				2.4	8.5		86		124		22			890
9-13-68	20.0	9				1.8	8.6									--
9-16-68		5				1.6	8.6									30
9-17-68	20.9	3	264	7.4	82	1.8	8.4		92		130		19			57
9-18-68	20.9	2	270	7.2	80	1.3	8.4		90		134		21			50
9-19-68	20.8	3	261	7.7	85	1.6	8.4		92		134		24			16
9-20-68	20.1	3	263	7.8	85	2.0	8.3		94		134		26			45
9-23-68		2				1.7	8.4									40
9-24-68		4				1.8	8.4									25
9-25-68		2				1.5	8.4									40
9-26-68		4				2.3	8.4									15
9-27-68	20.0	3				1.5	8.3		94		131		29			--
9-30-68		5				1.6	8.3									92
Sept. Avg.	20.5	6	265	7.5	83	1.8	8.5		91		131		24			99
Max.	20.9	30	270	7.8	85	2.4	8.8		94		134		26			890
Min.	20.0	2	261	7.2	80	1.3	8.3		86		124		19			15
10-1-68		2				1.6	8.3									23
10-2-68		2				1.6	8.3									15
10-3-68		20				1.5	8.4									280
10-4-68		45				2.0	8.2									
10-7-68	16.9	7	250	8.1	83	0.8	8.3		94		128		25			128
10-8-68	16.9	2	245	8.8	90	1.0	8.3		92		140		25			40
10-9-68	16.4	3	241	8.4	85	1.1	8.4		92		132		26			24
10-10-68		7				1.0	8.4									
10-11-68		2				1.2	8.5									
10-14-68	16.2	1	249	8.8	89	1.6	8.6		96		138		25			56
10-15-68	16.2	1	259	9.1	93	1.1	8.6		92		131		24			32

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
10-16-68		3					1.1	8.5								9
10-17-68	16.2	1	250	8.8	89	0.9	8.5		96							10
10-18-68	16.5	2	270	8.6	87	1.2	8.5		90		136		26			
10-21-68		8				1.8	8.5									94
10-22-68	15.0	4	240	9.0	88	1.7	8.2		96		137		25			38
10-23-68		10				1.3	8.4									80
10-24-68	14.0	3	235	9.0	87	1.8	8.5		98		138		24			100
10-25-68		6				1.1	8.4									45
10-28-68	13.1	5	223	9.2	86	0.8	8.3		96		136		25			137
10-29-68	12.0	40	250	9.5	87	1.5	8.3		92		133		26			2,567
10-30-68		10				1.0	8.3									363
10-31-68		5				1.1	8.4									65
Oct. Avg.	15.4	8	247	8.8	88	1.3	8.4		94		135		25			216
Max.	16.9	45	250	9.5	93	2.0	8.6		98		140		26			2,567
Min.	12.0	1	223	8.1	83	0.8	8.2		90		128		24			9
11-1-68	11.0	3	220	9.4	87	0.9	8.6		90		136		24			10
11-4-68	11.1	2	229	10.0	92	1.0	8.5		88		140		25			56
11-5-68	11.1	2	223	10.4	95	1.4	8.7		92		142		26			22
11-6-68	11.2	4	221	10.1	95	1.4	8.3		98		137		26			100
11-7-68	11.2	10	244	9.6	89	2.0	8.3		98		138		26			172
11-8-68		25				2.1	8.4									1,683
11-11-68	8.3	10				1.4	8.3									10
11-12-68	9.8	30	230	9.8	86	1.5	8.3		92		135		24			69
11-13-68	9.0	60	242	10.2	87	1.5	8.4				132		22			94
11-14-68		25				1.6	8.4									140
11-15-68	7.3	30	205	10.2	84	1.4	8.2		92		140		23			42

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-18-68	8.3	30	210	10.7	87	1.7	8.3	94	124	20	20	20	20	20	20	20
11-19-68	8.0	35	220	10.4	85	1.5	8.2	92	136	22	22	22	22	22	22	645
11-20-68	7.8	70	182	11.1	94	2.0	8.3	96	139	20	20	20	20	20	20	193
11-21-68	6.2	25	189	11.0	89	1.3	8.2	94	129	20	20	20	20	20	20	65
11-22-68	6.0	25	195	10.4	83	1.4	8.0	90	132	23	23	23	23	23	23	65
11-25-68	6.2	15	195	11.7	94	1.1	8.4	90	132	23	23	23	23	23	23	844
11-26-68		8				1.2	8.1									337
11-27-68		15				1.1	8.2									277
11-29-68	6.0	20	191	11.9	95	1.4	8.1	92	121	26	26	26	26	26	26	4,875
Nov. Avg.	9.2	20	214	10.5	89	1.4	8.3	93	134	23	23	23	23	23	23	486
Max.	11.2	70	244	11.7	95	2.0	8.7	98	142	26	26	26	26	26	26	4,875
Min.	6.0	2	182	9.4	83	0.9	8.0	88	121	20	20	20	20	20	20	10
12-2-68		9				1.7	8.2									277
12-3-68	6.3	6	200	11.5	93	1.6	8.3	92	120	25	25	25	25	25	25	357
12-4-68		20				1.3	8.3									410
12-5-68	6.0	35	185	11.5	92	1.9	8.2	92	116	22	22	22	22	22	22	207
12-6-68		60				1.6	8.2									10
12-9-68		35				1.5	8.3									543
12-10-68	3.0	20	181	12.0	89	1.3	8.3	90	111	22	22	22	22	22	22	85
12-11-68	3.0	10	180	12.3	91	1.2	8.2	94	123	23	23	23	23	23	23	92
12-12-68	2.9	10	177	12.2	90	1.1	8.3	92	120	22	22	22	22	22	22	7
12-13-68		15				1.0	8.3									155
12-16-68		80				0.9	8.2									25
12-17-68		45				0.8	8.2									25
12-18-68	1.1	15	165	12.0	84	0.9	8.3	90	125	21	21	21	21	21	21	33
12-19-68		15				0.9	8.3									17
12-20-68	1.1	45	168	12.6	89	0.8	8.2	92	127	22	22	22	22	22	22	24

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-23-68	1.9	30	163	13.0	94	0.7	8.2	8.2	90		120		21			57
12-26-68		8				0.7	8.2	8.2								1,520
12-27-68		5				0.8	8.2	8.2								65
12-30-68	1.1	60	153	13.6	96	1.3	8.3	8.3	92		120		20			1,077
12-31-68	1.1	25	168	13.8	97	1.1	8.2	8.2	90		124		22			3,800
Dec. Avg.	2.7	25	175	12.4	91	1.1	8.2	8.2	91		121		22			439
Max.	6.3	60	200	13.8	97	1.7	8.3	8.3	94		127		25			3,800
Min.	1.1	5	153	11.5	84	0.7	8.2	8.2	90		111		20			7

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
7-1-68	21.4	10	1	269	8.6	96	1.5	8.5	93			124					1,200	
7-2-68	22.0	8	0	272	8.6	98	1.1	8.5	90			126					670	144
7-3-68	21.4	10	1	270	8.6	96	1.1	8.5	88			120	24	23	0.16	0.0	410	
7-4-68	21.2	7	1	--	--	--	1.3	8.6	91									
7-5-68	21.1	4	1	266	8.2	90	1.5	8.5	88		122						670	
7-6-68	21.0	3	1	268	7.9	87	1.3	8.5	91								310	
7-7-68	20.5	3	1	--	--	--	1.4	8.2	91									
7-8-68	21.0	4	1	272	7.3	80	1.5	8.3	91			126					1,400	
7-9-68	21.7	3	1	270	7.5	84	1.3	8.4	90			120					4,100	132
7-10-68	22.3	4	1	272	6.8	76	1.1	8.4	91			185					4,700	
7-11-68	21.3	4	1	272	4.5	50	1.7	8.0	91			186	23	25	0.06	0.0	2,400	
7-12-68	21.1	3	1	272	5.8	64	1.0	8.1	92			188					2,200	
7-13-68	20.7	3	1	269	6.1	66	1.6	8.0	91								1,300	
7-14-68	21.0	3	1	--	--	--	1.8	7.9	91									
7-15-68	23.5	3	1	281	7.4	85	1.5	8.2	91			196					500	
7-16-68	24.3	3	1	284	7.6	90	1.2	8.3	89			195					780	60
7-17-68	24.3	2	1	288	7.7	91	1.2	8.5	91			186					610	
7-18-68	24.5	3	1	290	7.3	85	1.3	8.3	91			184	24	25	0.08	0.0	970	
7-19-68	24.5	9	1	284	6.8	86	1.6	8.3	89			150					1,100	
7-20-68	24.2	3	1	285	6.6	77	1.5	8.3	90								330	
7-21-68	23.8	3	1	--	--	--	1.8	8.3	91									
7-22-68	24.3	3	1	292	7.0	83	1.4	8.5	90			172					480	
7-23-68	24.3	3	1	290	7.0	83	1.9	8.4	89			185	25	25	0.10	0.0	470	108
7-24-68	24.5	3	1	292	7.2	85	1.7	8.4	91			158					300	
7-25-68	24.5	3	1	291	6.7	79	1.3	8.4	89			191					300	
7-26-68	24.3	3	1	292	5.7	67	1.6	8.3	90			195					310	
7-27-68	24.2	2	1	289	7.1	84	1.3	8.5	91								300	
7-28-68	24.4	3	1	--	--	--	1.4	8.6	89									
7-29-68	24.2	6	1	290	7.6	90	1.3	8.6	90			198					450	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.	PC
7-30-68	24.2	4	2	287	7.8	93	1.6	8.6	88	185	124	27	28	0.08	0.0	110	236	
7-31-68	24.1	3	1	283	7.1	84	1.3	8.5	87	186	120					700		
July Avg.	22.9	4	1	280	7.2	83	1.4	8.4	90	180	122	25	25	0.10	0	1,041	136	
Max.	24.5	10	2	292	8.6	98	1.8	8.6	92	198	126	27	28	0.16	0	4,700	144	
Min.	20.5	2	0	266	4.5	50	1.0	7.9	87	122	120	23	23	0.06	0	110	60	
8-1-68	24.3	3	2	286	7.0	83	1.2	8.7	90	160	120					230	316	
8-2-68	24.2	2	1	--	7.4	87	1.0	8.6	86		118					700		
8-3-68	24.0	2	1	--	6.9	80	1.6	8.6	92		--					175		
8-4-68	24.7	2	1	--	--	--	1.5	8.5	87		--					--		
8-5-68	24.7	3	1	276	8.0	95	1.2	8.6	83		116					345		
8-6-68	25.2	3	1	--	8.1	97	1.2	8.6	81		118					200		
8-7-68	25.8	2	1	280	7.9	95	1.3	8.7	83		114	23	25	0.10	0	1,000	116	
8-8-68	25.9	3	1	282	7.8	95	1.4	8.7	86		118					850		
8-9-68	26.2	2	1	--	6.9	83	1.5	8.7	89		120					170		
8-10-68	26.2	1	2	--	--	--	1.7	8.6	88		--					390		
8-11-68	--	--	--	--	--	--	2.1	--	--		--					--		
8-12-68	24.6	3	1	--	5.9	70	2.0	8.4	89		120					190		
8-13-68	24.4	3	1	298	5.8	68	2.2	8.5	91		124	25	27	0.06	0	390	148	
8-14-68	25.0	2	1	298	7.0	83	1.8	8.5	90		122					170		
8-15-68	25.0	2	1	292	6.8	80	1.4	8.5	90		124					500	132	
8-16-68	24.8	2	2	--	6.7	79	1.5	8.5	91		124					250		
8-17-68	25.4	2	4	--	6.5	78	2.3	8.5	91		126					300		
8-18-68	25.3	3	3	--	--	--	4.4	8.5	90		--					--	212	
8-19-68	25.4	4	3	299	6.8	81	3.5	8.6	93		124					160		
8-20-68	26.0	4	2	300	7.2	87	3.0	8.6	94		122	25	25	0.11	0	170	428	
8-21-68	26.3	4	2	300	7.3	89	2.7	8.6	91		124					450		
8-22-68	26.8	6	3	298	7.5	92	2.2	8.8	90		120					320	1,460	

TABLE 4. (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
8-23-68	27.4	7	3	295	8.2	102	2.8	8.9	87	116	116	116	88	1,076				
8-24-68	27.6	5	2	--	--	--	4.1	8.8	90	122	122	122	100					
8-25-68	27.7	15	3	--	--	--	4.1	8.7	88	--	--	--	--					
8-26-68	25.7	35	1	295	6.7	80	2.4	8.7	89	112	112	112	280	1,108				
8-27-68	25.0	15	1	291	6.6	78	1.8	8.6	92	120	120	120	200	596				
8-28-68	24.6	6	1	296	6.7	78	1.9	8.5	91	124	124	124	170	188				
8-29-68	24.2	4	1	297	6.8	80	2.8	8.5	90	124	124	124	130	188				
8-30-68	23.8	4	1	294	7.0	81	1.7	8.6	86	124	124	124	87					
8-31-68	23.4	4	2	--	7.2	84	1.5	8.6	89	--	--	--	170					
Aug. Avg.	25.3	5	2	293	7.1	81	2.1	8.6	89	160	160	160	303	497				
Max.	27.7	35	4	300	8.1	102	4.4	8.9	94	160	160	160	1,000	1,460				
Min.	23.4	1	1	276	5.8	68	1.0	8.4	81	160	160	160	87	116				
9-1-68	23.2	4	1	295	--	--	1.2	8.5	91	126	126	126						
9-2-68	22.6	8	2	--	--	--	1.1	8.6	92	126	126	126						
9-3-68	22.6	5	1	289	8.7	100	1.4	8.7	88	128	128	128	290	588				
9-4-68	22.8	4	1	285	9.8	112	0.8	8.9	93	126	126	126	170	300				
9-5-68	23.1	4	1	291	8.6	100	1.0	8.8	94	130	130	130	75	244				
9-6-68	23.0	9	1	285	8.5	99	1.4	8.8	92	128	128	128	140					
9-7-68	22.3	15	1	--	7.8	89	1.0	8.6	94	--	--	--	140					
9-8-68	22.0	5	1	--	--	--	1.5	8.6	94	--	--	--	--					
9-9-68	22.2	5	1	290	7.8	89	1.2	8.7	94	132	132	132	--					
9-10-68	22.0	4	1	295	7.8	88	1.4	8.7	94	134	134	134	100	424				
9-11-68	21.7	10	1	290	7.8	88	1.3	8.7	92	130	130	130	420					
9-12-58	20.7	15	1	290	7.6	83	1.2	8.6	93	128	128	128	2,100	220				
9-13-68	20.9	15	1	280	8.1	90	1.1	8.7	94	128	128	128	480					
9-14-68	21.3	4	2	--	8.5	95	1.2	8.7	93	--	--	--	270					
9-15-68	21.3	3	1	--	--	--	1.3	8.6	94	--	--	--	--					

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC	
9-16-68	21.3	4	1	290	7.9	88	1.2	8.6	95	130	130	130	25	29	0.10	0	130	296	
9-17-68	21.5	5	1	290	7.7	85	1.0	8.6	95	130	130	130	25	29	0.10	0	80	288	
9-18-68	21.1	6	1	295	7.2	80	1.3	8.4	97	232	232	132	25	29	0.10	0	150		
9-19-68	21.1	5	1	268	7.3	81	1.1	8.4	97	203	203	132	25	29	0.10	0	420		
9-20-68	21.0	5	1	291	7.4	82	1.6	8.4	96	168	168	132	25	29	0.10	0	230		
9-21-68	21.2	4	1	260	7.8	87	1.3	8.6	96	134	134	134	25	29	0.10	0	130		
9-22-68	21.2	2	1	--	--	--	1.3	8.5	97	--	--	--	25	29	0.10	0	--		
9-23-68	21.3	3	1	291	7.4	83	1.3	8.6	98	195	195	134	26	27	0.08	0	150	276	
9-24-68	22.0	2	1	297	8.2	93	0.8	8.6	97	198	198	130	26	27	0.08	0	63	248	
9-25-68	22.0	3	1	290	8.2	93	0.7	8.5	97	195	195	136	26	27	0.08	0	120		
9-26-68	21.3	3	1	289	7.8	87	0.7	8.5	96	203	203	134	26	27	0.08	0	95		
9-27-68	21.2	3	1	288	7.9	88	0.7	8.6	93	191	191	136	26	27	0.08	0	140		
9-28-68	21.0	3	1	290	7.7	85	0.7	8.4	97	132	132	132	26	27	0.08	0	130		
9-29-68	20.5	3	1	--	--	--	1.0	8.5	96	--	--	--	26	27	0.08	0	--		
9-30-68	20.2	5	1	280	8.0	88	0.7	8.5	96	138	138	138	26	27	0.08	0	97		
Sept. Avg.	21.7	5	1	287	8.0	90	1.1	8.6	95	198	198	131	25	28	0.09	0	266	320	
Max.	23.2	15	2	297	9.8	112	1.6	8.9	98	232	232	138	26	29	0.10	0	2,100	588	
Min.	20.2	2	1	260	7.2	80	0.7	8.4	88	168	168	126	24	27	0.08	0	63	220	
10-1-68	20.4	3	1	290	8.7	96	0.9	8.4	97	220	220	136	24	27	0.08	0	220	164	
10-2-68	20.3	3	1	282	8.7	96	0.8	8.6	97	191	191	140	24	27	0.08	0	140		
10-3-68	20.2	45	1				0.8	8.4	97								100		
10-4-68	19.0	80			7.8	83	1.7	8.3	99								720		
10-5-68	17.2	25	1	286	9.1	94	0.8	8.2	93	132	132	132	24	29			410		
10-6-68		5	1				0.8	8.3	95										
10-7-68	17.4	15	0	268	8.6	89	1.3	8.3	98	130	130	130	24	25	0.07	0	290		
10-8-68	17.1	4	0	260	9.0	93	0.6	8.4	96	126	126	126	24	25	0.07	0	150	356	
10-9-68	16.9	3	1	262	9.7	99	1.0	8.4	94	128	128	128	24	25	0.07	0	100		

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.	PC
10-10-68	17.2	7	1	261	9.6	98	0.5	8.5	94			128					130	
10-11-68	17.0	3	1		9.2	95	0.7	8.6	98			130					53	200
10-12-68							0.6											
10-13-68							0.6											
10-14-68	17.4	3	1	268	9.4	97	0.7	8.5	95			128					63	196
10-15-68	17.7	2	1	269	9.8	102	0.5	8.6	96		160	128	26	27	0.06	0	28	176
10-16-68	18.0	2	1	270	9.5	100	0.5	8.6	95		177	128					16	228
10-17-68	18.4	2	1	271	9.5	101	0.5	8.6	95		201	123					27	256
10-18-68	18.8	3	0	280	9.6	102	0.6	8.6	98		200	132					27	232
10-19-68	18.1	4	1		9.2	96	0.5	8.6	96			132					17	
10-20-68	17.7	1	1				0.7	8.6	95									
10-21-68	17.2	6	0	270	9.4	97	0.7	8.7	94		194	138					68	276
10-22-68	17.1	4	1	269	9.2	95	0.7	8.6	98		201	132	24	26	0.06	0	68	328
10-23-68	16.7	10	0	269	9.3	96	0.7	8.6	98		198	130					72	388
10-24-68	15.9	6	0	262	9.2	92	0.4	8.6	96		179	130					58	140
10-25-68	15.4	10	1	260	9.2	91	0.5	8.6	95		196	132					130	332
10-26-68	13.9	35	1	249	9.4	90	0.7	8.5	96		132						250	
10-27-68	13.8	10	1				0.8	8.4	94									
10-28-68	13.6	20	1	250	9.7	93	0.8	8.4	99		196	136					580	188
10-29-68	12.6	55	1	250	9.9	93	0.8	8.4	99		205	132	22	29	0.18	0	1,300	344
10-30-68	11.2	30	1	235	9.5	86	0.6	8.4	99		188						550	
10-31-68	11.9	7	1	240	10.3	95	0.5	8.3	93		196	132					110	128
Oct. Avg.	16.7	15	1	252	9.7	95	0.7	8.5	96		190	131	24	27	0.09	0	218	246
Max.	20.4	55	1	290	10.3	102	1.7	8.7	99		220	138	26	29	0.18	0	1,300	388
Min.	11.2	1	0	235	7.8	83	0.4	8.2	93		132	126	22	25	0.06	0	16	128
11-1-68	12.5	5	1	245	9.9	91	0.5	8.3	97		202	132					470	144
11-2-68	12.7	4	1		9.9	91	0.4	8.4	98			132					140	
11-3-68	12.9	4	1				0.7	8.4	93									

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
11-4-68	12.5	4	0	242	10.4	96	0.6	8.3	98	186	130						770	120
11-5-68	12.6	4	0				1.4	8.3	99									
11-6-68	12.9	4	1	251	9.8	91	1.5	8.3	98	194	134						150	120
11-7-68	12.9	15	2	259	9.6	85	1.7	8.2	97	199	132		27	29	0.21	0	2,200	108
11-8-68	12.2	40	2	249	9.8	90	1.1	8.2	98	196	134						1,700	300
11-9-68	11.2	20	1	232	10.0	90	1.3	8.3	94		132						1,320	120
11-10-68	11.0	20	1				0.8	8.2	94									
11-11-68	10.8	15	1	231	9.8	88	1.7	8.1	95	185	136						320	116
11-12-68	10.8	60	1	232	9.3	83	1.6	8.2	96	185	132						150	180
11-13-68	9.4	90	2	230	10.1	87	1.0	8.2	98	160	134		26	27	0.88	0	310	292
11-14-68	9.1	50	1	229	10.7	93	0.7	8.1	100	190	136						110	140
11-15-68	9.1	40	0	230	10.6	92	1.0	8.1	98	196	134						560	124
11-16-68	9.2	40	0				1.3	8.1	97		132						390	
11-17-68	9.0	30	0				1.1	8.2	97									
11-18-68	9.0	90	0	215	10.6	91	1.4	8.1	93	190	118						260	200
11-19-68	8.2	55	1	200	10.9	92	1.3	8.2	92	166	126						89	148
11-20-68	6.9	100	1	200	11.3	93	1.3	8.2	93	173	122		21	20	1.38	0	77	160
11-21-68	6.7	45	1	191	11.7	95	1.1	8.2	92	173	124						330	236
11-22-68	7.0	40	0	199	11.6	96	1.1	8.2	89	176	124						360	252
11-23-68	6.8	20	1	199	10.6	82	0.9	8.2	91		122						85	
11-24-68	7.8	15	1				0.7	8.2	87									
11-25-68	7.6	25	1	199	11.6	96	1.0	8.2	90	166	118						90	312
11-26-68	7.5	9	1	201	11.3	93	0.6	8.2	89	165	120		22	22	0.12	0	30	160
11-27-68	8.1	20	1	201	11.4	95	0.9	8.2	89	177	120						1,400	232
11-28-68	7.9	7	0				0.7	8.2	89									
11-29-68	8.0	15	0		11.2	94	0.7	8.3	89		114						1,400	
11-30-68	8.4	15	0		11.8	100	0.7	8.2	87		116						1,600	
Nov. Avg.	9.7	30	1	222	9.6	92	1.0	8.2	94	182	127		24	24	0.65	0	596	182
Max.	12.9	100	2	259	11.8	100	1.7	8.4	100	202	136		27	29	1.38	0	2,200	312
Min.	6.8	4	0	191	9.1	83	0.4	8.1	87	160	114		21	20	0.12	0	30	108

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
12-1-68	7.2	15	1					0.7	8.2	88	194	118	25	22	0.15	0	1,200	220
12-2-68	7.3	10	1	209	11.9	99		0.5	8.2	87	198	122					480	264
12-3-68	7.1	9	1	199	11.7	97		0.5	8.2	88	182	122					900	200
12-4-68	7.3	30	1	200	12.0	99		0.5	8.3	90	187	122					1,600	256
12-5-68	6.6	80	2	202	11.6	94		0.7	8.2	90	167	122					490	368
12-6-68	5.3	70	2	187	11.8	93		0.6	8.2	91								
12-7-68	5.1	50	1		12.0	95		0.6	8.2	85		118					390	
12-8-68	4.2	30	1					0.3	8.2	88								
12-9-68	3.5	35	1	185	12.9	97		0.6	8.2	87	155	124					1,800	384
12-10-68	3.9	25	1	190	12.2	93		1.1	8.1	88	190	128	32	24	0.35	0	700	300
12-11-68	3.7	25	1	192	11.1	84		1.4	8.1	88	180	128					400	320
12-12-68	3.4	15	1	180	12.8	96		1.0	8.1	87	159	128					1,300	340
12-13-68	4.2	30	1	175	12.3	94		0.4	8.2	89	189	118					630	404
12-14-68	4.5	25	1		12.5	96		0.3	8.2	90		116					500	
12-15-68	3.5	50	1					0.6	8.1	84								
12-16-68	2.8	80	1	162	13.4	99		1.0	8.0	87	149	118					90	660
12-17-68	2.2	50	1	168	13.4	99		0.2	8.1	87	152	126	27	22	0.50	0	110	160
12-18-68	2.2	25	1	171	13.6	100		0.4	8.1	92	181	120					220	288
12-19-68	2.2	15	1	178	13.3	99		0.3	8.0	89	174	122					90	192
12-20-68	2.6	60	1	175	13.8	101		0.2	8.2	91	181	118					340	332
12-21-68	2.5	45	1		13.7	101		0.3	8.3	91		120						410
12-22-68	2.5	15	1					0.4	8.2	87								
12-23-68	2.7	55	1	172	13.2	98		0.5	8.2	91	146	116					170	376
12-24-68	2.3	60	1	169	13.6	99		0.5	8.2	86	164	118	20	21	0.70	0	320	276
12-25-68	1.4	20	1					0.6	8.1	93								
12-26-68	1.9	10	1	171	13.6	98		1.2	8.1	89	166	116					93	144
12-27-68	2.1	7	1	172	14.2	103		0.7	8.1	87	175	122					140	112
12-28-68	2.2	6	1		13.9	101		0.5	8.1	86		120					250	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem. pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
12-29-68	1.5	40	1				0.7	8.2	83								
12-30-68	2.0	55	2	167	13.8	100	1.1	8.1	84	145	114					3,600	160
12-31-68	2.1	100	2	161	13.5	99	1.3	8.0	70	164	114	24	21	0.70	0	4,700	368
Dec. Avg.	3.6	35	1	180	12.9	97	0.6	8.1	87	171	120	25	22	0.48	0	820	301
Max.	7.3	100	2	209	14.2	103	1.4	8.3	93	198	128	32	24	0.70	0	4,700	660
Min.	1.4	6	1	162	11.6	93	0.2	8.0	70	145	114	20	21	0.15	0	90	112

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
7-1-68	18.8	20		8.8	94	2.2	7.8	7.8	90	233	130		23			150
7-2-68	20.0	15		9.0	98	2.6	7.9	7.9	90	201	130		22			200
7-4-68	19.0	15		6.8	73	2.0	7.7	7.7	92	180	130		22			310
7-5-68	19.0	10		6.5	69	2.4	7.7	7.7	92	190	132		23			60
7-6-68	18.5	10		8.0	90	2.6	7.7	7.7	94	193	124		21			180
7-7-68	19.0	15		7.2	77	2.8	7.7	7.7	90	195	130		22			180
7-8-68	18.0	10		7.0	74	2.2	7.7	7.7	90	259	130		22			30
7-9-68	19.5	15		6.9	74	2.3	7.7	7.7	92	226	130		21			60
7-10-68	18.0	10		7.5	78	2.3	7.8	7.8	94	189	126		21			240
7-11-68	18.0	25		7.6	80	2.2	7.8	7.8	92	229	128		22			30
7-12-68	18.5	20		6.4	68	2.3	7.7	7.7	94	159	128		22			20
7-13-68	19.0	20		6.8	73	2.5	7.6	7.6	94	147	130		22			40
7-14-68	19.0	10		6.9	74	2.5	7.8	7.8	92	162	130		22			70
7-15-68	19.0	15		6.1	65	2.2	7.5	7.5	96	255	114		22			120
7-16-68	19.5	20		9.7	105	2.8	8.2	8.2	96	250	118		22			1,280
7-17-68	19.0	25		9.5	101	2.3	7.9	7.9	94	252	122		22			1,500
7-18-68	22.0	15		7.2	81	2.7	7.7	7.7	96	222	130		22			330
7-19-68	22.5	15		6.7	76	2.7	7.9	7.9	90	208	132		22			360
7-20-68	22.2	10		6.2	71	2.9	7.9	7.9	86	226	136		21			1,350
7-21-68	21.1	10		5.8	65	2.7	7.7	7.7	90	189	130		22			140
7-22-68	20.0	20		6.7	73	2.7	7.3	7.3	96	224	140		22			230
7-23-68	23.3	20		7.4	86	2.9	7.9	7.9	92	215	140		22			1,770
7-24-68	21.6	15		5.8	65	3.1	7.7	7.7	96	218	134		21			1,500
7-25-68	22.5	20		6.7	76	2.4	7.7	7.7	90	156	136		24			100
7-26-68	22.2	15		7.3	84	2.3	7.9	7.9	88	141	134		24			260
7-27-68	23.3	20		7.2	84	2.1	7.9	7.9	88	--	134		24			140
7-28-68	23.3	20		7.9	93	2.5	8.0	8.0	86	188	134		23			650
7-29-68	22.3	20		7.7	91	2.4	8.0	8.0	88	196	134		23			800
7-30-68	22.2	15		7.8	90	--	8.0	8.0	88	241	132		24			630
7-31-68	22.0	20		7.7	88	--	8.0	8.0	88	212	134		23			350

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TS	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
July Avg.	20.4	15		7.3	81	2.5	7.8	91	205	130			22			436
Max.	23.3	25		9.7	105	3.1	8.0	96	259	140			24			1,770
Min.	18.0	10		5.8	65	2.0	7.3	86	141	114			21			20
8-1-68	22.5	20		7.8	89	1.8	7.8	90	193	132			23			100
8-2-68	22.0	15		7.7	87	2.4	7.7	92	172	136			22			50
8-3-68	22.7	10		7.7	88	2.0	8.0	90	163	130			21			50
8-4-68	22.7	15		--	--	2.0	7.9	92	--	128			21			60
8-5-68	22.7	15		--	--	1.8	7.8	90	--	130			21			60
8-6-68	23.8	30		--	--	2.0	8.0	92	--	128			22			10
8-7-68	22.2	20		7.7	88	2.0	8.1	92	164	132			21			290
8-8-68	24.3	15		6.6	78	2.5	7.9	86	215	134			22			230
8-9-68	24.4	10		7.2	85	2.7	8.1	88	200	132			22			640
8-10-68	24.4	15		7.2	85	2.5	8.1	90	296	124			21			260
8-11-68	22.7	15		6.6	76	2.6	8.1	88	154	126			23			130
8-12-68	22.2	10		6.6	75	2.2	8.1	90	170	124			23			330
8-13-68	22.7	10		5.8	66	2.2	8.1	88	180	126			25			100
8-14-68	24.3	20		6.8	81	--	8.0	92	175	128			23			15
8-15-68	22.5	20		6.2	71	--	8.1	90	188	130			25			10
8-16-68	23.5	20		5.4	63	--	7.7	94	284	132			24			15
8-17-68	23.0	20		6.4	74	2.8	8.0	98	--	128			24			70
8-18-68	23.5	20		6.2	71	--	7.9	92	267	128			24			40
8-19-68	22.5	15		6.0	69	--	8.0	94	254	132			23			15
8-20-68	24.0	20		7.2	85	--	7.9	94	152	130			23			30
8-21-68	23.5	20		7.0	81	--	7.9	92	184	128			24			40
8-22-68	24.0	10		6.9	81	2.9	8.0	90	177	130			25			55
8-23-68	26.1	20		7.1	87	4.0	8.1	88	173	128			23			90
8-24-68	26.6	15		7.7	96	4.5	8.1	90	178	122			23			90
8-25-68	26.1	15		7.1	87	4.3	7.9	86	165	124			24			430

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-26-68	22.7	20		7.2	82	4.4	8.1	88	294	122	24	540				
8-27-68	22.2	30		6.7	76	3.9	7.9	86	165	130	25	370				
8-28-68	22.2	20		7.1	80	--	7.9	84	164	128	24	290				
8-29-68	24.0	15		6.4	76	--	7.9	90	183	134	26	15				
8-30-68	24.0	15		6.7	78	--	8.0	88	181	130	25	35				
8-31-68	23.0	15		7.4	86	--	8.0	88	193	130	25	50				
Aug. Avg.	23.5	15		6.9	80	2.8	8.0	90	196	129	23	145				
Max.	26.6	30		7.8	89	4.5	8.1	98	296	136	26	640				
Min.	22.0	10		5.4	63	1.8	7.7	84	152	122	21	10				
9-1-68	23.0	15		7.2	83	3.8	7.9	94	191	130	25	80				
9-2-68	21.0	15		5.8	64	3.7	7.8	96	193	128	26	50				
9-3-68	21.0	10		7.0	78	3.8	8.0	98	196	132	26	40				
9-5-68	21.0	30		5.3	59	3.5	7.6	104	202	136	27	110				
9-6-68	21.0	15		5.7	63	3.7	8.0	100	194	134	26	780				
9-7-68	21.0	20		7.5	84	3.2	8.0	100	164	136	25	90				
9-8-68	21.0	20		6.9	77	2.1	8.0	100	179	134	26	40				
9-9-68	20.0	20		6.2	67	3.3	7.7	98	165	132	26	60				
9-10-68	19.0	10		3.2	34	3.3	7.4	106	--	134	26	130				
9-11-68	19.0	8		7.5	80	2.7	7.9	104	215	134	26	190				
9-12-68	19.0	20		7.8	84	2.8	7.9	102	189	132	25	80				
9-13-68	20.0	6		8.2	90	2.6	7.9	104	185	134	26	150				
9-14-68	20.0	20		8.7	95	2.4	8.0	102	192	134	26	40				
9-15-68	20.0	10		8.1	89	2.5	7.9	104	110	136	27	140				
9-16-68	19.0	15		7.4	80	2.6	7.7	102	--	134	26	20				
9-17-68	19.0	20		6.2	66	3.0	7.8	102	--	134	26	70				
9-18-68	19.0	15		6.8	73	2.9	7.8	104	--	136	26	30				
9-19-68	18.3	15		5.9	62	3.2	7.8	102	--	136	26	210				

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-20-68	18.3	8		2.8	30	3.2	7.4	104	189	138			26			60
9-21-68	18.3	7		7.0	74	2.5	7.6	102	188	136			26			470
9-22-68	19.4	8		6.3	68	2.4	7.6	100	181	138			26			60
9-23-68	20.0	10		8.2	90	2.4	7.9	100	163	136			27			260
9-24-68	20.0	9		8.0	87	2.1	8.0	100	187	138			27			340
9-25-68	20.0	15		8.5	93	2.3	8.0	102	196	140			27			3,600
9-26-68	19.5	15		8.1	87	2.7	8.0	100	182	130			28			5,400
9-27-68	19.5	3		8.1	87	2.6	7.8	104	196	138			27			7,600
9-28-68	19.5	3		8.2	89	2.5	8.0	104	188	136			27			930
9-29-68	19.0	4		8.0	86	2.2	7.9	102	182	136			27			2,570
9-30-68	19.0	10		7.6	81	2.2	8.0	102	188	134			27			210
Sept. Avg.	19.8	15		7.0	76	2.8	7.8	101	184	135			26			821
Max.	23.0	3		8.7	95	3.8	8.0	104	215	140			28			7,600
Min.	18.3	30		2.8	30	2.1	7.4	94	110	128			25			20
10-1-68	19.0	2		8.1	86	2.3	8.0	102	183	132			27			160
10-2-68	19.0	3		8.1	86	2.4	8.0	102	180	136			26			450
10-3-68	19.0	6		8.4	90	2.5	8.0	102	187	134			27			1,930
10-4-68	17.0	45		8.8	90	2.8	7.7	106	202	138			26			1,250
10-5-68	16.5	10		8.6	88	2.3	7.7	104	154	140			26			2,480
10-6-68	16.5	5		8.6	88	2.2	7.8	106	132	142			26			1,950
10-7-68	16.0	8		8.7	87	2.0	7.9	102	153	134			27			290
10-8-68	16.0	4		8.8	87	2.2	7.9	102	150	134			28			380
10-9-68	16.0	4		9.2	93	3.1	7.9	102	140	136			27			630
10-10-68	16.0	7		9.0	90	2.2	7.9	102	135	134			26			1,580
10-11-68	16.0	4		8.8	87	2.2	7.9	102	160	134			26			690
10-12-68	16.0	4		8.6	86	2.0	7.9	100	163	138			22			130
10-13-68	17.0	2		8.7	89	2.3	7.9	98	174	132			21			250

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-14-68	16.0	2		8.6	86	1.9	7.8	98	176	134	22	130				
10-15-68	16.0	5		8.6	86	2.2	7.9	98	180	134	21	60				
10-16-68	16.5	6		8.4	85	2.2	7.9	98	169	130	22	210				
10-17-68	16.5	2		8.7	88	2.1	7.9	98	159	142		370				
10-18-68	16.6	2		8.6	86	2.2	8.0	98	131	138	24	200				
10-19-68	16.1	2		8.9	90	2.2	8.0	94	175	138	23	590				
10-20-68	16.1	2		9.0	91	2.3	8.0	96	171	138	24	1,190				
10-21-68	16.1	3		9.2	93	2.2	8.1	96	168	142	24	330				
10-22-68	15.5	2		9.8	97	2.2	8.0	96	190	138	25	100				
10-23-68	15.5	3		10.7	106	2.8	7.9	94	206	140	25	150				
10-24-68	15.0	3		11.1	109	2.1	8.0	98	180	134	24	1,310				
10-25-68	14.5	4		11.0	107	2.2	8.0	98	186	136	24	2,080				
10-26-68	14.0	9		11.1	107	2.3	8.0	98	192	138	25	380				
10-27-68	14.0	5		11.2	108	2.5	7.9	96	190	138	25	750				
10-28-68	12.5	10		11.2	104	2.3	7.9	98	159	140	24	580				
10-29-68	12.0	10		11.7	108	2.2	7.8	96		138	25	140				
10-30-68	11.0	10		11.5	105	2.3	7.8	98		136	24	310				
10-31-68	11.0	5		11.5	105	2.2	7.8	98		138	24	1,230				
Oct. Avg.	15.6	6		9.4	94	2.3	7.9	99	169	137	25	717				
Max.	19.0	45		11.7	109	3.1	8.1	106	202	140	28	2,080				
Min.	11.0	2		8.1	85	1.9	7.7	94	131	130	21	60				
11-1-68	11.5	5		11.3	103	3.0	7.8	98		136	24	810				
11-2-68	11.5	6		11.7	106	2.2	7.8	134		134	25	7,600				
11-3-68	11.5	8		11.9	108	2.3	7.8	98		134	25	6,400				
11-4-68	11.5	4		12.2	110	2.1	7.7	134	147	134	25	1,220				
11-5-68	11.5	2		12.3	111	2.1	7.9	100		130	26	170				
11-6-68	11.5	7		12.2	110		7.9	98		132	26	120				

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-7-68	11.5	15		11.8	107	2.0	7.9	98			134		22			1,750
11-8-68	11.5	15		12.2	110	2.2	7.8	100			134		25			8,100
11-9-68	10.0	15		12.2	108	2.4	7.8	100			130		24			2,210
11-10-68	10.0	15		12.2	108	2.4	7.8	98			132		24			2,700
11-11-68	9.5	10		12.5	109	2.3	7.8	98		144	136		25			2,830
11-12-68	9.0	20		12.7	110	2.4	7.9	98			132		24			1,820
11-13-68	8.5	30		13.3	113	2.3	7.8	100			132		25			2,620
11-14-68	8.3	20		12.7	104	2.3	7.8	100			138		25			2,370
11-15-68	8.8	10		13.0	111	2.4	7.9	96			140		25			960
11-16-68	8.8	15		12.9	110	2.1	7.8	98			144		24			3,000
11-17-68	8.3	20		12.8	105	2.5	7.8	100			140		24			1,400
11-18-68	7.7	25		12.5	104	2.4	7.8	98		151	138		24			1,500
11-19-68	7.7	30		13.0	109	3.8	7.8	98			140		23			1,940
11-20-68	6.6	45		13.1	107	2.8	7.8	92			138		23			1,040
11-21-68	5.6	50		13.2	104	2.5	7.8	98			124		20			730
11-22-68	5.0	70		13.0	102	2.4	7.7	96			128		20			570
11-23-68	6.0	35		13.2	105	2.0	7.8	96			132		21			1,300
11-24-68	6.5	50		13.2	107	2.1	7.8	94			132		22			980
11-25-68	6.0	30		12.8	103	2.2	7.8	90		213	126		21			1,100
11-26-68	6.1	20		12.8	103	2.4	7.8	94			124		24			1,150
11-27-68	6.0	20		13.0	104	2.2	7.8	94			126		24			140
11-28-68	7.0	30		13.0	107	2.1	7.7	96			120		23			490
11-29-68	7.0	35		13.0	107	2.3	7.7	94			132		23			1,080
11-30-68	7.0	35		13.0	107	2.5	7.8	94			130		23			500
Nov. Avg.	8.5	20		12.2	107	2.4	7.8	99		164	133		23			1,989
Max.	11.5	50		13.2	111	3.8	7.9	134		213	144		26			8,100
Min.	5.0	2		11.3	102	2.0	7.7	90		144	120		20			140

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
12-1-68	6.1	20		11.6	94	2.3	8.0	94		153	120		22			180
12-2-68	6.1	30		11.5	93	2.0	8.0	96			118		22			6,050
12-3-68	6.1	10		11.5	93	2.1	8.0	94			120		22			3,330
12-4-68	5.6	20		11.5	90	2.4	8.0	94			120		22			930
12-5-68	5.0	25		11.6	86	3.2	8.0	96			122		22			750
12-6-68	3.9	50		11.3	85	2.6	8.0	96			120		22			4,000
12-7-68	3.9	35		12.0	90	2.0	7.9	94			120		21			1,180
12-8-68	3.3	35		11.8	88	2.6	7.7	94			124		21			1,690
12-9-68	2.2	25		12.2	89	3.0	7.9	94			126		21			2,110
12-10-68	2.2	20		12.0	87	2.3	8.1	94			124		21			440
12-11-68	2.2	8		12.5	91	1.9	8.1	94			120		22			90
12-12-68	2.2	9		12.5	91	2.0	8.0	94			126		22	0.40		50
12-13-68	2.2	9		12.6	92	2.4	8.1	84			126		22			70
12-14-68	2.2	15		12.6	92	1.8	8.2	90			140		21			210
12-15-68	2.2	30		12.5	91	2.1	8.1	92			136		21			170
12-16-68	1.7	25		12.7	91	1.9	8.0	90		23	134		22	1.70		190
12-17-68	1.7	30		12.9	94	2.6	8.2	86			130		22			210
12-18-68	1.1	25		12.7	90	2.1	8.1	92			124		21			180
12-19-68	1.0	15		13.1	93	1.9	8.0	94		19	126		21			30
12-20-68	1.0	25		12.8	90	2.0	8.2	96			134		21			230
12-21-68	1.0	15		13.0	92	1.9	8.2	94			126		21			50
12-22-68	1.0	20		13.1	93	2.0	8.1	94		159	130		21			100
12-23-68	1.0	20		12.3	87	1.9	8.1	92			126		21	1.70		140
12-24-68	1.0	25		13.3	94	2.3	8.1	94			126		22			160
12-25-68	0.5	20		13.1	92	2.6	8.0	94			128		22			280
12-26-68	0.5	10		12.9	90	2.1	8.0	94		20	128		22			20
12-27-68	0.5	7		13.6	95	2.0	8.1	92			130		22	0.70		2,730
12-28-68	1.0	15		13.2	94	2.0	8.0	96			130		21			12,080
12-29-68	1.0	65		13.3	94	3.8	8.1	92			124		25			

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801													
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	T. Fe T. Mn T. Coli.
12-30-68	1.0	10		13.4	95	2.5	7.9		92	174	120	21	2,950
12-31-68	1.0	20		13.4	95	2.2	8.0		92		122	22	2,970
Dec. Avg.	2.3	20		12.5	91	2.3	8.0		93	162	126	21	1,414
Max.	6.1	65		13.4	95	3.8	8.2		96	174	140	23	12,080
Min.	0.5	7		11.3	85	1.8	7.7		84	153	118	19	20

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
7-1-68	21.0	6	17	271	5.7	63	2.0	7.9	7.9	90	--	129	--	--	--	--	600	--
7-2-68	18.9	7	17	286	6.7	70	2.2	7.9	7.9	90	--	130	24	24	0.26	--	730	--
7-3-68	19.7	15	17	284	8.4	90	1.7	7.9	7.9	90	--	132	--	--	--	--	1,450	--
7-5-68	18.9	8	17	275	7.1	75	1.7	7.9	7.9	90	--	135	--	--	--	--	730	--
7-8-68	17.8	5	12	296	4.0	41	2.3	7.8	7.8	91	--	132	--	--	--	--	1,510	--
7-9-68	17.1	5	12	296	2.7	27	2.9	7.7	7.7	91	--	134	24	26	0.40	0.0	2,700	--
7-10-68	--	6	12	296	1.8	--	3.5	7.8	7.8	90	--	134	--	--	--	--	14,100	256
7-11-68	19.0	3	12	296	0.8	7	3.7	7.7	7.7	90	--	136	--	--	--	--	2,500	--
7-12-68	18.0	3	12	299	1.1	11	3.6	7.8	7.8	92	--	134	--	--	--	--	1,200	--
7-15-68	15.6	4	12	303	0.6	5	3.8	7.7	7.7	91	184	130	--	--	--	--	1,750	1,260
7-16-68	16.1	2	12	299	0.7	6	4.3	7.7	7.7	92	185	142	--	--	--	--	2,700	--
7-17-68	16.1	4	12	305	0.3	2	6.6	7.7	7.7	92	199	132	--	--	--	--	3,000	--
7-18-68	15.6	2	12	299	0.2	2	5.3	7.7	7.7	92	191	132	22	26	0.19	0.47	1,400	--
7-19-68	18.3	4	24	303	0.2	2	4.9	7.7	7.7	92	183	132	--	--	--	--	3,250	--
7-22-68	16.0	3	17	311	0.2	2	4.8	7.6	7.6	93	--	133	--	--	--	--	4,150	--
7-23-68	15.6	4	24	310	0.1	1	5.3	7.6	7.6	93	--	130	--	--	--	--	2,150	--
7-24-68	15.6	2	12	315	0.4	3	4.7	7.7	7.7	94	--	133	--	--	1.52	0.40	2,250	--
7-25-68	16.0	2	17	306	0.3	2	5.7	7.7	7.7	92	--	132	21	26	--	--	3,100	--
7-26-68	17.0	3	17	305	0.3	2	5.5	7.6	7.6	93	190	131	--	--	--	--	800	--
7-29-68	22.5	6	12	292	7.3	83	2.2	8.6	8.6	93	--	126	--	--	--	--	1,050	--
7-30-68	23.5	2	12	290	7.2	84	2.2	8.4	8.4	93	--	129	--	--	--	--	1,480	605
7-31-68	23.5	3	12	283	6.8	79	2.0	8.4	8.4	93	--	129	--	--	0.53	0.00	1,100	350
July Avg.	18.2	5	15	296	2.3	31	3.7	7.8	7.8	92	189	132	23	26	0.58	0.29	2,440	618
Max.	23.5	15	24	315	8.4	90	6.6	8.4	8.4	94	199	142	24	26	1.52	0.47	14,100	1,260
Min.	15.6	2	12	271	0.1	1	1.7	7.6	7.6	90	184	126	21	24	0.19	0.00	600	256
8-1-68	21.1	4	8	295	3.5	39	2.8	7.9	7.9	92	--	129	26	28	--	--	1,410	--
8-2-68	22.2	7	12	301	3.4	38	2.6	7.9	7.9	91	--	128	--	--	--	--	1,670	--

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
8-5-68	21.5	3	8	303	2.6	28	2.8	7.9	92	92	128	131					1,350	810
8-6-68	22.1	4	12	302	3.0	33	2.8	7.9	93	93	131	131			0.36		8,200	
8-7-68	22.8	6	12	306	2.3	26	3.0	7.9	94	94	131	131					3,100	
8-8-68	22.6	7	12	310	1.8	20	4.2	7.9	94	94	131	131					2,265	
8-9-68	21.5	5	12	311	1.6	17	3.8	7.7	94	94	131	131	22	28		0.32	4,900	
8-12-68	24.0	8	17	309	6.0	70	2.9	8.4	92	92	132	132					1,710	856
8-13-68	22.8	5	17	315	3.7	42	4.7	7.8	93	93	135	135					2,920	513
8-14-68	22.8	3	24	286	3.8	43	3.8	7.9	94	94	137	137					1,576	
8-15-68	22.8	3	35	316	6.3	72	3.7	8.3	93	93	139	139					2,390	645
8-16-68	19.5	2	50	314	--	--	5.2	7.8	95	95	132	132	21	30	0.20	0.65	3,200	
8-19-68	17.1	2	50	312	--	--	6.3	7.9	107	107	140	140			0.74	0.47	8,600	379
8-20-68	20.0	2	70	313	--	--	5.6	7.7	117	117	135	135	22	28			6,400	
8-21-68	24.2	7	70	306	7.4	87	3.8	8.7	95	95	128	128					1,480	
8-22-68	22.8	2	50	345	0.8	8	6.9	--	102	102	132	132					743	
8-23-68	23.3	3	50	298	0.8	8	5.9	--	94	94	132	132					1,470	
8-24-68	18.5	--	70	--	--	--	7.2	--	--	--	--	--					3,800	
8-26-68	24.8	15	35	230	6.8	80	5.2	--	--	--	126	126					520	
8-27-68	25.0	5	17	273	6.9	82	4.3	8.4	95	95	128	128					390	
8-28-68	24.5	4	17	300	6.9	82	4.0	8.5	94	94	133	133	22	28			380	
8-29-68	24.0	2	12	303	7.1	83	--	8.4	93	93	130	130			0.18	0	130	
8-30-68	24.0	4	8	296	7.0	83	--	8.4	94	94	--	--						
Aug. Avg.	22.3	5	29	302	4.3	47	4.4	8.1	96	96	132	132	23	28	0.37	0.36	2,664	640
Max.	25.0	15	70	345	7.4	87	6.3	8.7	117	117	140	140	26	30	0.74	0.65	8,600	856
Min.	17.1	2	8	230	0.8	8	2.6	7.7	91	91	126	126	21	28	0.18	0	130	379
9-3-68	20.0	3	8	319	0.4	3	4.8	7.6	97	97	134	134	21				340	
9-4-68	18.5	3	12	314	0.1	1	4.1	7.6	97	97	137	137	27				1,250	
9-5-68	18.5	4	8	285	0.3	2	4.5	7.6	98	98	134	134				0	260	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.	PC
9-6-68	18.5	3	8	270	0.3	2	3.8	7.7	96	137	0	300						
9-9-68	19.5	4	8	295	4.0	4	3.0	7.7	96	134		220						
9-10-68	18.5	5	8	308	1.5	15	3.4	7.6	97	137		230						
9-11-68	18.9	2	8	306	0.1	1	3.5	7.6	99	134	0.20	140				0		
9-12-68	20.0	25	12	244	7.4	80	2.4	8.1	99	133	24	28	24	28			270	
9-13-68	20.0	4	8	246	7.4	80	1.6	8.3	96	129		48					48	
9-16-68	20.6	4	6	236	7.3	80	1.9	8.3	98	132		64					64	
9-17-68	20.6	3	6	290	6.7	73	1.9	8.3	95	132		170					170	
9-18-68	20.0	3	6	308	5.4	59	1.9	8.0	97	132	24		24				160	
9-19-68	19.6	6	8	317	3.0	32	1.9	7.9	95	129	0.26	0			0.26	0	100	
9-20-68	18.9	2	8	306	4.6	49	1.9	8.0	98	132	27		27				84	
9-23-68	19.0	2	6	299	0.3	3	3.0	7.6	97	129		120					120	
9-24-68	19.0	3	6	278	0.1	1	3.1	7.6	99	129	21	0.40	21	29	0.62	0.40	200	
9-25-68	20.0	3	6	308	0.3	3	3.2	7.5	98	132		510					510	
9-26-68	21.5	2	6	290	9.3	105	1.3	8.6	95	128		270					270	
9-27-68	21.0	2	6	286	8.6	96	1.7	8.5	96	127		300					300	3,250
9-30-68	21.5	3	6	364	8.3	93	1.3	8.5	96	115		20					20	2,880
Sept. Avg. 19.7	4	8	296	3.8	39	2.7	7.9	97	131	24	29	0.27	24	29	0.27	0.10	253	3,065
Max. 21.5	25	12	364	9.3	105	4.8	8.0	99	137	27	29	0.62	27	29	0.62	0.40	1,250	3,250
Min. 18.5	2	6	244	0.1	1	1.3	7.6	95	115	21	28	0.20	21	28	0.20	0	48	2,880
10-1-68	21.0	3	6	255	8.2	91	1.2	8.5	96	124	20	0	20	23	0.06	0	250	2,400
10-2-68	21.0	4	6	265	8.4	93	1.3	8.4	96	126		300					300	
10-3-68	21.0	2	6	231	8.0	90	1.2	8.4	96	123		87					87	
10-4-68	20.0	65	258	7.5	82	5.1	8.3	96	127	23	26	0.62	23	26	0.62	0.10	460	
10-7-68	19.0	4	6	302	8.3	88	1.2	8.3	96	127		1,700					1,700	
10-8-68	18.0	8	6	302	8.1	85	1.2	8.2	96	128		950					950	
10-9-68	19.0	4	4	307	8.9	95	1.2	8.3	93	122		630					630	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.	PC
10-10-68	18.0	2	4	306	8.9	93	1.5	8.2	94	127.		127.					190	
10-11-68	18.0	4	4	299	8.8	92	1.2	8.3	94	124		124					70	
10-14-68	18.0	2	3	283	9.0	95	1.3	8.3	95	129		129	23	26	0.08	0	28	
10-15-68	18.0	2	3	300	8.9	93	1.2	8.3	94	131		131					32	
10-16-68	18.0	3	4	297	9.1	96	1.2	8.3	95	129		129					4	
10-17-68	19.0	4	4	265	8.6	92	1.2	8.3	95	131		131					20	
10-18-68	19.0	2	4	257	8.1	87	1.2	8.2	96	129		129					20	
10-21-68	19.0	15			8.9	95	1.4	8.3	95	125		125	20	24	0.05	0	150	
10-22-68	19.0	3	4	304	9.0	97	0.8	8.4	97	130		130					190	
10-23-68	18.0	5	6	180	8.7	91	1.3	8.4	96	132		132					130	
10-24-68	18.0	3	6	222	8.8	92	1.4	8.4	97	134		134					48	
10-25-68	17.0	4	6	310	8.7	89	1.3	8.4	97	133		133					580	
10-28-68	17.0	10	4	296	8.9	91	1.4	8.1	95	130		130	22	26	0.26	0	130	
10-29-68	16.0	40	4	307	9.0	90	1.8	8.3	96	132		132					180	
10-30-68	16.0	6	4	303	9.1	91	1.4	8.1	94	130		130					280	
10-31-68	15.0	3	4	313	9.1	90	1.5	8.3	97	136		136					68	
Oct. Avg.	18.3	9	5	280	8.6	91	1.4	8.3	96	129		129	22	25	0.21	0.03	282	2,400
Max.	21.0	65	6	313	9.1	97	5.1	8.5	97	136		136	23	26	0.62	0.10	1,700	2,400
Min.	15.0	2	3	180	7.5	82	0.8	8.1	93	122		122	20	23	0.05	0	4	2,400
11-1-68	15.0	3	4	311	9.5	93	1.2	8.3	94	143		143					76	
11-4-68	15.0	2	4	307	9.8	97	1.5	8.3	96	136		136	24		0	0	44	
11-6-68	16.0	3	4	237	9.5	95	1.5	8.3	97	136		136					56	
11-7-68	16.0	15	4	297	9.5	95	1.6	8.3	97	134		134					180	
11-8-68	14.0	30	6	230	9.4	90	2.1	8.0	97	130		130						
11-12-68	13.0	10	6	291	9.6	90	1.5	8.0	96	130		130	22	25	0.36		140	
11-13-68	12.0	150	12	301	9.7	89	3.7	7.9	97	130		130					310	
11-14-68	11.0	20	6	341	10.1	91	1.1	8.0	95	132		132					89	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	CL	T. Fe	T. Mn	T. Coli.	PC
11-15-68	12.0	20	4	314	10.3	95	1.1	8.0	95			132					62	
11-18-68	11.0	20	4	313	10.2	92	1.3	7.9	97			125					93	
11-19-68	11.0	35	6	281	10.3	93	1.4	8.0	91								76	
11-20-68	10.0	140		283			3.9	8.0	97			122					560	
11-21-68	9.0	35	6	229	11.3	98	1.2	7.9	96			123	21	23	0.54	0	180	
11-22-68	10.0	35	6	287	11.0	97	1.3	8.0	94			124					89	
11-25-68	10.0	10	4	188	11.2	99	1.0	8.1	94			124	22	26	0.32	0	180	
11-26-68	10.0	15	4	189	11.2	99	1.1	8.1	92			123					220	
11-27-68	10.0	9	4	297	11.4	100	1.1	8.1	94			124					230	
11-29-68	11.0	8	4	281	11.4	103	1.6	8.1	94			126					110	
Nov. Avg.	12.0	30	5	279	10.3	95	1.6	8.1	95			129	22	25	0.31	0	159	
Max.	16.0	150	12	341	11.4	103	3.9	8.3	97			143	24	26	0.54	0	560	
Min.	9.0	2	4	188	9.4	89	1.0	7.9	91			122	21	23	0	0	44	
12-2-68	10.0	9	4	280			1.2	8.1	94			120	21	21	0.14	0	36	
12-3-68	10.0	5		278	11.7	103	1.0	8.0	94			118					50	
12-4-68	9.0	6		240	11.7	101	1.2	8.0	93			120					250	
12-5-68	9.0	20	6	283	12.0	103	1.5	8.1	93			132					470	
12-6-68	10.0	50		280	12.0	105	1.2	8.1	94			133					240	
12-9-68	7.0	35		157	12.5	103	1.0	8.0	97			128	24	24	1.32	0	260	
12-10-68	6.0	15	4	260	12.9	103	0.9	8.0	97			135					34	
12-11-68	7.0	7	4	284	12.6	104	0.8	8.0	98			123					29	
12-12-68	7.0	10	4	291	12.9	105	0.7	8.0	94			128					6	
12-13-68	6.0	6	4	298			0.8	8.0				130					130	
12-16-68	6.0	150	4	332	13.1	105	1.8	8.1	94			120	23	21	0.26	0	330	
12-17-68	7.0	50	6	271	13.5	110	1.4	8.0	91			128					120	
12-18-68	6.0	15	4	261	13.5	108	0.7	7.9	92			114					64	
12-19-68	7.0	15	4	257	13.8	113	0.7	7.9	93			126					33	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
12-20-68	7.0	20	4	294	13.9	113	0.7	7.9	7.9	94	131	131	19	20	1.16	0.12	37	
12-23-68	7.0	15	4	268	13.9	113	0.9	7.8	7.8	93	96	96	19	20	1.16	0.12	120	
12-24-68	7.0	200					1.7	7.8	7.8									
12-26-68	11.4	30		279	14.5	131	0.9	8.1	8.1	89	123	123					16	
12-27-68	11.4	5		330			0.8	8.1	8.1	94	105	105					19	
12-30-68	8.4	9		314			1.4	8.0	8.0	85	120	120	24	23	0.54	0		
12-31-68	9.0	6		303	14.3	123	0.8	8.0	8.0	89	116	116					12	
Dec. Avg.	8.0	30	4	276	13.0	109	1.0	8.0	8.0	93	122	122	22	22	0.64	0.03	119	
Max.	11.4	200	6	332	14.5	131	1.8	8.1	8.1	98	135	135	24	24	1.32	0.12	470	
Min.	6.0	5	4	157	11.7	101	0.7	7.8	7.8	85	96	96	19	20	0.14	0	6	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
7-1-68	18.3	2	1	--	7.9	83	1.2	8.0	88	188	128	128				0.06	3,400	896
7-2-68	18.3	3	1	200	8.6	90	1.2	8.2	92	202	124	124					2,200	3,463
7-3-68	19.4	3	1	270	9.2	99	1.2	8.3	84		124	124					4,700	3,685
7-5-68	19.4	3	1	290	2.3	24	1.2	7.7	92		122	122	21	24			0	3,938
7-8-68	18.8	2	2	290	0.6	5	1.1	7.8	91		126	126			0.43		0	4,470
7-9-68	19.4	2	1	300	1.8	18	1.4	7.9	91		124	124	24				0	5,267
7-10-68	19.4	2	1	295	0.5	4	1.2	7.8	82		128	128			0.33	0.0	0	2,523
7-11-68	19.4	2	2	290	1.9	19	0.9	7.8	92		127	127					0	2,590
7-12-68	19.4	2	1	260	1.9	19	1.1	7.4	96		128	128					0	3,091
7-15-68	18.9	2	4	250	7.8	83	1.4	8.0	94		130	130	11	19		TNTC	5,345	
7-16-68	21.1	1	4	275	7.7	85	1.2	7.9	90		134	134	10	21			1,870	5,342
7-17-68	21.1	1	4	--	8.0	90	1.4	7.9	88		128	128					2,200	8,940
7-18-68	20.0	1	2	310	7.4	80	0.9	7.8	94	204	128	128					1,935	5,135
7-19-68	19.4	1	2	310	8.4	90	1.3	8.3	92	204	124	124			0.25	0.0	2,100	6,463
7-22-68	21.6	1	2	305	7.5	85	1.6	8.1	95	211	125	125					2,700	4,277
7-23-68	22.7	1	2	309	8.1	93	1.4	8.5	94	205	125	125	27	26			2,700	2,931
7-24-68	22.2	1	2	305	6.6	75	1.5	8.1	92	211	127	127			0.15	0.0	1,600	3,719
7-25-68	22.2	1	2	316	7.3	83	1.4	8.3	88	215	126	126					1,040	4,308
7-26-68	22.2	1	2	310	7.2	82	1.4	8.3	88	214	127	127					2,200	5,342
7-29-68	22.7	1	2	295	7.5	85	1.1	8.4	89	210	125	125					2,960	2,934
7-30-68	22.7	1	2	306	7.4	85	1.2	8.4	90	204	123	123					1,650	15,869
7-31-68	22.7	1	2	305	7.8	90	1.2	8.5	88	211	126	126	28	26	0.10	0.0	660	11,193
July Avg.	20.5	2	2	290	6.1	67	1.3	8.1	90	207	126	126	20	23	0.25	0.01	1,615	5,078
Max.	22.7	3	4	316	9.2	90	1.4	8.5	96	215	134	134	28	26	0.43	0.06	4,700	15,869
Min.	18.3	1	1	200	0.5	4	0.9	7.4	82	188	122	122	10	19	0.10	0.0	0	886
8-1-68	22.2	1	2	305	7.8	89	1.5	8.3	88		127	127					594	8,340
8-2-68	22.2	1	2	310	7.8	89	1.4	8.4	89	211	127	127					1,300	2,881

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.	PC
8-5-68	22.7	1	2	310	7.8	90	1.4	8.3	96	217	127	127	1,900	3,551				
8-6-68	23.3	1	2	312	7.1	82	1.8	8.3	91	229	127	127	2,400	2,594				
8-7-68	23.3	1	2	315	8.1	95	1.7	8.4	92	223	130	130	3,200	5,551				
8-8-68	23.3	1	2	320	7.7	90	1.6	8.5	90		128	128	2,400	--				
8-9-68	23.8	1	2	303	7.7	90	1.6	8.5	90		128	128	1,700	5,860				
8-12-68	24.4	1	6	--	--	--	--	--	--	--	--	--	--	3,790				
8-13-68	24.4	1	12	306	7.7	91	1.7	8.5	92		130	130	1,300	--				
8-14-68	23.4	1	17	302	8.0	94	2.6	8.5	92		129	129	--	3,708				
8-15-68	23.4	<1	35	--	7.7	89	2.4	8.6	92		131	131	--	--				
8-16-68	23.4	1	12	--	7.8	90	2.6	8.6	90		132	132	2,400	3,167				
8-19-68	23.4	3	17	300	1.8	20	--	--	90		124	124	0	1,906				
8-20-68	23.4	1	17	--	2.0	23	--	--	88		130	130	0	1,503				
8-21-68	23.8	1	8	300	2.0	23		8.2	92		128	128	0	1,450				
8-22-68	23.8	1	6	305	2.0	23		7.9	89		125	125	0	1,240				
8-23-68	23.8	1	6	305	2.0	23		7.9	89		125	125	0	1,700				
8-26-68	23.8	1	8	301	7.1	83		8.3	--		131	131	4,400	1,843				
8-27-68	23.8	3	17	285	7.1	83		8.3	92		132	132	800	3,793				
8-28-68	23.3	1	8	295	6.9	80		8.3	92		128	128	6,800	--				
8-29-68	23.3	2	8	296	6.9	80		8.3	92		129	129	132	3,972				
8-30-68	23.3	1	4	295	7.0	80		8.1	92		132	132	--	4,923				
8-31-68	23.3	1	--	--	--	--		8.2	--				--	--				
Aug. Avg.	23.4	1	9	321	6.2	72	1.8	8.3	91	220	129	129	0	1,629	3,431			
Max.	24.4	3	35	320	8.1	94	2.6	8.6	96	229	132	132	0	6,800	8,340			
Min.	22.2	1	2	285	2.0	20	1.4	7.9	88	211	124	124	0	0	1,240			
9-3-68	22.2	1	4	285	7.4	84	--	8.3	93		131	131	3,900					
9-4-68	22.2	1		229	7.7	88	--	8.3	92		131	131	4,600					
9-5-68	22.2	1		300	7.9	90	1.0	8.3	90		129	129	580					

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.	PC
9-6-68	21.6	1	--	310	7.9	88	1.0	8.3	90	130	189							
9-7-68	21.6	1	--	--	--	--	1.4	8.2	--	--	--							
9-9-68	21.6	1	3	285	7.8	87	0.8	7.9	92	126	95							2,865
9-10-68	21.1	1	2	295	7.8	86	0.8	8.1	92	130	121							3,065
9-11-68	21.1	1	4	285	8.0	90	0.9	8.3	92	129	99							
9-12-68	21.1	5	4	295	7.6	85	1.2	8.2	93	129	264		19	26	0.02	0.006		2,822
9-13-68	20.5	1	2	280	7.3	80	1.1	8.1	92	130	891							4,434
9-16-68	20.5	1	2	279	8.3	91	1.0	8.3	92	129	660							
9-17-68	20.5	1	1	290	7.6	83	0.9	8.1	90	130	99							
9-18-68	20.5	1	1	280	7.9	87	0.8	8.6	92	129	33							
9-19-68	20.5	1	1	280	7.7	85	1.0	8.1	94	129	690		14	22	0.15	0.50		3,611
9-20-68	20.5	15	2	285	8.2	90	1.4	8.1	91	129	143							3,291
9-23-68	20.5	1	2	350	8.0	88	1.2	8.1	92	133	143							
9-24-68	20.5	1	2	285	7.3	80	--	8.3	92	129	11							
9-25-68	21.1	1	2	310	8.3	93	--	8.3	91	129	88							2,639
9-26-68	21.1	1	4	292	8.7	97	0.9	8.2	90	130	22		18	26	0.02	0		
9-27-68	21.1	1	3	285	8.3	93	1.0	8.5	92	129	22							
9-30-68	20.0	2	4	280	8.3	90	1.0	8.3	96	126	726							
Sept. Avg.	21.0	2	2	289	7.9	88	1.0	8.2	92	129	668		17	25	0.06	0.17		3,246
Max.	22.2	15	4	350	8.7	97	1.4	8.6	96	133	4,600		19	26	0.15	0.50		4,434
Min.	20.5	1	1	229	7.3	80	0.8	7.9	90	126	11		14	22	0.02	0		2,639
10-1-68	20.0	2	3	270	8.3	91	0.7	8.3	94	126	594							
10-2-68	20.0	1	3	280	8.3	91	0.9	8.3	92	128	393		19	29		0.22		
10-3-68	20.0	1	3	301	8.3	91	0.8	8.3	94	130	187							2,390
10-4-68	19.4	20	3	260	8.2	89	1.1	8.1	94	126	1,913							3,144
10-7-68	17.8	4	4	275	8.3	87	0.9	7.8	91	128	110							2,594
10-8-68	17.7										44							2,723

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	Tb	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
10-9-68	17.2	2	4	260	8.5	88	0.6	8.2	89			124	28	26		0.20	752	3,706
10-10-68	17.2	2	4	295	9.1	94	0.8	8.3	92			126					346	3,607
10-11-68	17.2	2	3	275	8.7	90	0.8	8.1	92			126					726	3,687
10-12-68	17.2	1					1.0	8.1										
10-14-68	17.2	2	4	290	9.4	97	0.4	8.2	90			130					1,774	1,947
10-15-68	17.2	1	4	295	9.2	95	1.0	8.3	91			128					5,900	1,200
10-16-68	17.2	2	4	290	9.3	96	0.9		94								1,980	1,685
10-17-68	17.2	1	4	292	9.5	98	0.8	8.2	93			125					693	1,952
10-18-68	17.7	2	4		9.0	95	0.8		97			129					506	1,991
10-21-68	17.2	3		280	8.9	93	0.9	7.8	95			124					143	1,760
10-22-68	17.2	1		295	9.1	94	0.8	8.0	94			124					22	1,625
10-23-68	16.6	9	4	310	8.6	87	0.9	8.3	96			126					154	1,716
10-24-68	16.6	5	4	298	8.9	90	0.9	8.2	94			126	20	26	0		22	1,809
10-25-68	16.6	2	4	280	9.1	93	0.9	8.0	96			124					6	1,658
10-28-68	14.4	9	4	270	9.3	90	1.2	7.8	89			124					166	1,658
10-29-68	14.4	20	8	310	9.4	92	1.2	8.0	94			127					209	1,352
10-30-68	13.3	5	8	280	9.4	90	0.6		94			128					777	1,298
10-31-68	13.3	4	4		9.5	91	0.9	7.7	84			126	18	29	0		37	1,450
Oct. Avg.	17.1	4	4	285	8.9	92	0.9	8.1	93			126	21	27		0.11	759	2,140
Max.	20.0	20	8	310	9.5	87	1.1	8.3	97			130	28	29		0.22	5,900	3,687
Min.	13.3	1	3	260	8.2	98	0.4	7.7	89			124	18	26		0	6	1,200
11-1-68	13.3	4	4		9.5	90	0.7	7.7	84			126					0	
11-4-68	13.3	2	4	330	9.8	93	0.8	7.9	88			124					33	426
11-6-68	12.7		4				0.8						19	27	0.22	0.04	80	
11-7-68	12.7	10	4	310	9.8	91	1.2	8.0	86			122					350	
11-8-68	12.7	10	4	280	9.4	98	0.9	7.7	87			122					220	
11-12-68	11.1	15	4		8.4	76	1.2	7.8	92								350	1,492

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.	PC
11-13-68	10.5	40	4					1.3								220	
11-14-68	10.0	20	8		9.4	83		1.4	8.0				26	0.36	0.11	308	1,804
11-15-68	9.4	15	8		8.9	77		1.1	7.9							209	
11-18-68	9.4	15	8	290	9.6	84		1.1	7.9		128					341	
11-19-68	9.4	15	8	285	8.9	77		1.2	7.7		126					33	
11-20-68	7.7	55	4	250				1.6	7.9		124					3,432	
11-21-68	7.7	30	4	250	10.5	87		1.4	7.9		124	23	25	0.40	0.06	55	
11-22-68	8.3	20	4	260	10.8	91		0.9	8.0		124					44	
11-25-68	8.8	7	4	300	10.4	89		0.9	7.8		126					20	
11-26-68	8.8	4	4	280	11.3	96		0.7	8.0		130					88	
11-27-68	8.3	3	4	295	11.4	97		0.6	7.9		130					62	
11-29-68	7.7	3	3	290	11.2	94		0.8	7.6		130	18	30	0.31	0	21	
Nov. Avg.	10.1	15	5	285	10.0	88		1.0	7.8			20	27	0.32	0.05	309	1,241
Max.	13.3	55	8	230	11.4	97		1.6	8.0			23	30	0.40	0.11	3,432	1,804
Min.	7.7	2	3	250	8.4	76		0.6	7.6			18	25	0.22	0.04	0	426
12-2-68	7.2	4	4	255	11.3	93		1.0	7.9		126					43	
12-3-68	7.2	4	4	265	11.7	96		1.0	7.6		124					180	
12-4-68	6.6	5		255	11.8	95		0.9	7.8		124	17	29	0.12	0	106	
12-5-68	6.6	15	3	275	8.8	70		1.2	7.7		126					92	
12-6-68	6.1	50	8	340	11.7	94		1.5	8.0		128					960	
12-9-68	4.4	20	8	265	12.3	95		0.9	8.1		128					77	
12-10-68	5.5	10		270	12.4	98		0.6	8.2		126					26	
12-11-68	5.0	5		266	12.3	86		0.5	8.0		132	16	24	0.004	0	23	
12-12-68	4.4	5			12.8	98		0.7	8.1		128					67	
12-13-68	4.4	4	4	275	12.8	98		0.6	8.2		129					440	
12-16-68	3.9	60	12	200	13.0	99		1.4	7.8		130					52	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
12-17-68	2.8	35	2	260	13.5	100	0.9	7.8	92	129	26	28	0.09	0	132			
12-18-68	2.2	15	4	250	13.3	96	0.6	8.0	86	126					28			
12-19-68	2.2	10	4	245	13.6	98	0.6	8.0	86	126					10			
12-20-68	2.2	20	4	210	13.7	99	0.6	7.8	86	128					33			
12-23-68	1.6	15	2	230			1.3	7.9	89	128					85			
12-24-68	1.6	20	3	255			0.9	8.0	91	128	20	28	0.40	0	253			
12-26-68	0.5	40	4	260			0.6	8.1	92	128					8			
12-27-68	0.5	15	4	210			0.6	8.1	90	132					0			
12-30-68	0.5	7	4	249	14.3	100	0.8	8.2	92	124					5			
12-31-68	0.5	3	4	251	14.2	99	0.6	8.0	88	124	13	29	0.20	0	0			
Dec. Avg.	3.6	15	5	254	12.6	95	0.8	8.0	91	127	18	27	0.16	0	125			
Max.	7.2	60	12	340	14.3	100	1.5	8.2	96	132	26	29	0.40	0	440			
Min.	0.5	3	2	200	8.8	86	0.5	7.6	86	124	13	24	0.004	0	0			

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO	Cl	T. Fe	T. Mn	T. Coli
7-1-68	20.0	40			4.0		--	103		149		50			930
7-2-68	20.0	35			3.6		7.6	105		141		44			930
7-3-68	20.0	40			3.6		8.0	101		160		46			2,100
7-4-68	20.0	30			2.5		8.1	101		139		45			230
7-5-68	20.0	40			2.4		7.9	102		136		45			230
7-6-68	20.0	45			3.1		7.9	101		152		43			430
7-7-68	20.0	30			2.9		7.5	104		133		47			430
7-8-68	20.0	15			2.5		7.6	102		138		47			4,600
7-9-68	22.0	15			3.0		7.7	103		136		42			230
7-10-68	21.0	15			2.6		7.6	103		142		46			730
7-11-68	20.0	20			2.4		7.5	102		150		49			1,500
7-12-68	19.0	20			3.4		7.5	102		161		64			930
7-13-68	19.0	25			2.7		7.8	102		155		62			430
7-14-68	18.0	15			2.5		7.7	101		146		53			730
7-15-68	20.0	30			2.3		7.7	106		139		46			930
7-16-68	22.0	35			2.4		7.8	103		136		50			2,400
7-17-68	22.0	20			2.7		8.0	99		142		50			230
7-18-68	22.0	15			3.3		7.5	108		143		52			2,400
7-19-68	23.0	75			3.7		8.0	107		145		52			9,300
7-20-68	23.0	30			3.2		8.0	101		141		48			430
7-21-68	23.0	25			2.3		8.0	103		145		51			230
7-22-68	23.0	20			3.1		7.8	103		136		48			730
7-23-68	24.0	30			2.6		7.9	105		140		53			2,400
7-24-68	23.0	20			2.7		7.8	101		140		50			4,300
7-25-68	24.0	25			2.5		7.9	103		139		50			230
7-26-68	23.0	25			2.0		8.0	107		159		50			430
7-27-68	23.0	30			2.3		8.0	105		143		53			430
7-28-68	23.0	40			2.5		7.9	105		146		54			430
7-29-68	24.0	45			2.1		7.8	101		149		55			1,500
7-30-68	24.0	20			2.8		7.8	101		142		48			230
7-31-68	24.0	20			2.0		7.9	102		137		48			

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe.	T. Mn	T. Coli.
July Avg.	21.5	30			2.7	7.8		103		144		50			1,326
Max.	24.0	45			4.0	8.1		108		161		64			9,300
Min.	18.0	15			2.0	7.5		99		133		42			91
8-1-68	24.0	20			3.1	7.9		102		138		51			91
8-2-68	24.0	20			3.0	7.9		103		139		55			230
8-3-68	24.0	15			2.8	7.7		102		140		54			46,000
8-4-68	24.0	15			2.8	7.6		105		116		56			2,400
8-5-68	24.0	15			3.0	7.8		104		160		56			1,500
8-6-68	25.0	20			2.9	7.6		108		119		54			430
8-7-68	25.0	10			3.1	7.8		102		124		53			730
8-8-68	25.0	20			2.8	7.9		101		122		50			1,100
8-9-68	25.0	20			3.1	8.0		106		114		50			230
8-10-68	25.0	25			2.7	8.0		102		141		52			430
8-11-68	25.0	40			3.2	7.8		102		129		75			1,500
8-12-68	25.0	20			3.4	7.8		101		150		125			730
8-13-68	25.0	25			3.0	7.7		102		137		96			0
8-14-68	25.0	20			2.7	7.8		103		127		75			230
8-15-68	24.0	15			4.0	8.0		106		120		54			2,400
8-16-68	24.0	30			2.9	7.7		104		116		63			930
8-17-68	24.0	20			2.9	7.8		102		134		56			430
8-18-68	24.0	25			4.8	8.1		101		136		57			150
8-19-68	24.0	25			4.4	8.0		103		142		62			430
8-20-68	24.0	15			3.8	8.1		107		126		57			2,400
8-21-68	25.0	10			4.9	8.1		105		128		52			430
8-22-68	25.0	20			4.1	8.1		107		129		52			430
8-23-68	26.0	20			4.5	8.2		103		125		53			730
8-24-68	26.0	30			3.8	8.1		104		130		56			430
8-25-68	22.0	65			5.8	8.1		109		137		58			230

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-26-68	25.0	110				8.4	7.7	110	140	57	2,400					
8-27-68	24.0	95				5.1	7.4	113	139	55	11,000					
8-28-68	23.0	50				4.2	7.8	103	172	87	4,300					
8-29-68	23.0	35				4.3	7.8	102	152	86	110,000					
8-30-68	23.0	35				4.8	8.1	104	152	73	11,000					
8-31-68	23.0	30				4.3	8.0	106	166	85	930					
Aug. Avg.	24.3	30				3.8	7.9	104	135	63	6,588					
Max.	26.0	110				8.4	8.2	113	166	125	110,000					
Min.	22.0	10				2.7	7.4	101	114	50	0					
9-1-68	23.0	35				3.5	7.8	109	156	83	2,300					
9-2-68	22.0	30				3.2	8.0	102	139	60	15,000					
9-3-68	22.0	30		8.6	98	2.5	8.0	102	139	60	2,100					
9-4-68	22.0	30				2.6	7.7	104	157	74	930					
9-5-68	22.0	40				2.3	7.7	107	148	65	430					
9-6-68	22.0	45				3.1	7.9	105	138	56	9,300					
9-7-68	22.0	60				3.0	8.0	110	140	50	230					
9-8-68	22.0	40				3.0	7.8	106	148	50	2,100					
9-9-68	21.0	15				3.0	8.2	114	135	53	9,300					
9-10-68	21.0	20				2.5	8.0	107	134	59	9,300					
9-11-68	21.0	30				2.0	7.9	105	145	60	150					
9-12-68	20.0	230				5.1	7.9	111	148	65	9,300					
9-13-68	21.0	40				1.9	8.5	103	143	58	430					
9-14-68	21.0	20				2.9	8.1	106	144	58	1,500					
9-15-68	21.0	20				1.5	8.0	100	148	60	230					
9-16-68	21.0	20				2.6	8.1	106	148	61	930					
9-17-68	21.0	20		7.2	80	1.4	8.3	102	132	55	730					
9-18-68	21.0	35				2.9	7.9	104	125	50	2,300					

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-19-68	21.0	10				1.5	8.2	100	125	54	730					
9-20-68	21.0	30				1.8	7.5	106	140	65	430					
9-21-68	21.0	10				1.7	7.7	106	142	80	930					
9-22-68	22.0	20				1.7	7.9	110	135	57	150					
9-23-68	22.0	15				2.5	7.9	102	140	65	230					
9-24-68	22.0	15				1.2	8.3	110	138	65	430					
9-25-68	22.0	30				--	8.0	106	130	50	750					
9-26-68	22.0	50				3.0	7.9	104	135	50	500					
9-27-68	21.0	20				2.6	7.9	110	135	50	230					
9-28-68	21.0	40				3.3	8.0	106	130	50	9,300					
9-29-68	21.0	110				3.1	7.8	110	134	56	430					
9-30-68	20.0	35				3.7	7.5	106	134	52	1,500					
Sept. Avg.	21.4	40				2.6	7.9	106	139	59	2,739					
Max.	23.0	230				5.1	8.5	114	157	83	15,000					
Min.	20.0	10				1.2	7.5	100	125	50	150					
10-1-68	20.0	35				3.9	8.2	110	113	63	7,500					
10-2-68	21.0	25				2.8	8.1	100	150	70	1,500					
10-3-68	21.0	25				3.2	7.4	100	148	52	2,000					
10-4-68	19.0	115				4.4	7.4	108	160	68	2,400					
10-5-68	18.0	130				4.6	7.6	110	158	68	4,600					
10-6-68	17.0	130				3.1	7.9	106	168	58	3,900					
10-7-68	17.0	85				2.7	8.0	108	140	47	1,500					
10-8-68	16.0	40				2.4	7.8	106	134	52	2,400					
10-9-68	16.0	55				2.5	7.7	114	156	55	2,400					
10-10-68	17.0	30				2.5	7.7	112	146	55	4,600					
10-11-68	16.0	30				2.2	8.0	110	150	54	2,400					
10-12-68	16.0	25				2.0	7.9	112	164	60	230					

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/i

Mentor-on-Lake-E2601

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
10-13-68	16.0	20				1.8	7.7	108	162	54	430					
10-14-68	16.0	25				1.8	7.6	110	152	56	4,300					
10-15-68	17.0	20				1.8	7.8	110	150	51	930					
10-16-68	18.0	15				1.8	8.0	110	150	45	430					
10-17-68	18.0	20				1.6	8.1	102	164	45	430					
10-18-68	18.0	20				1.9	7.8	100	164	40	36					
10-19-68	18.0	20				2.1	7.7	110	150	55	2,400					
10-20-68	18.0	20				3.0	7.9	104	150	50	930					
10-21-68	17.0	70				3.7	7.8	110	140	47	4,300					
10-22-68	16.0	40				3.2	8.2	112	140	50	4,300					
10-23-68	16.0	135				3.1	7.5	112	146	55	9,300					
10-24-68	16.0	90				3.3	7.7	106	148	54	24,000					
10-25-68	16.0	45				2.6	7.7	108	160	52	2,400					
10-26-68	15.0	90				1.6	7.4	104	140	48	2,400					
10-27-68	15.0	110				2.0	7.4	104	148	54	4,300					
10-28-68	14.0	100				2.1		108	142	48	7,500					
10-29-68	12.0	135				3.1	8.1	110	152	50	110,000					
10-30-68	13.0	70				2.0	7.7	110	160	55	2,900					
10-31-68	12.0	70				1.6	7.8	108	156	47	1,600					
Oct. Avg.	16.6	60		8.8	96	2.6	7.8	108	150	53	7,042					
Max.	21.0	135		8.8	96	4.6	8.2	112	168	70	110,000					
Min.	12.0	15		8.8	96	1.6	7.4	100	113	40	36					
11-1-68	12.0	30				1.8	7.2	100	151	46	1,500					
11-2-68	12.0	20				2.1	7.7	115	174	48	430					
11-3-68	13.0	30				2.8	7.7	106	156	48	150					
11-4-68	13.0	35				3.2	7.9	110	144	45	9,300					
11-5-68	13.0	40				2.8	8.1	106	146	46	46,000					

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg./l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	\$	Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
11-6-68	13.0	30						2.0	7.8	106		168		65			46,000
11-7-68	12.0	100						2.3	7.9	114		192		90			110,000
11-8-68	11.0	110						1.6	7.8	110		200		113			9,300
11-9-68	11.0	110						2.2	8.1	112		172		54			2,400
11-10-68	11.0	45						3.5	8.1	106		190		53			15,000
11-11-68	10.0	55						3.4	8.2	110		160		50			24,000
11-12-68	10.0	50						3.1	7.8	102		140		56			46,000
11-13-68	9.0	210						2.8	7.5	104		194		123			4,300
11-14-68	9.0	95						3.0	7.6	104		180		53			2,400
11-15-68	9.0	60						2.6	7.6	102		160		54			930
11-16-68	10.0	60						2.5	7.7	100		160		50			4,300
11-17-68	9.0	70						2.6	7.7	106		154		45			9,300
11-18-68	9.0	80						3.9	7.2	110		140		54			4,300
11-19-68	9.0	100						3.5	7.3	116		148		46			240,000
11-20-68	9.0	200						3.7	7.5	110		150		48			24,000
11-21-68	8.0	235						6.5	7.5	110		156		50			46,000
11-22-68	7.0	155						4.1	7.3	110		170		50			15,000
11-23-68	7.0	100						4.5	7.4	108		180		48			9,300
11-24-68	7.0	90						2.3	7.3	104		162		52			4,300
11-25-68	8.0	100						3.4	8.2	110		160		46			15,000
11-26-68	7.0	50						2.0	7.8	104		146		45			24,000
11-27-68	8.0	85						2.6	7.4	106		144		58			2,100
11-28-68	7.0	45						1.5	7.5	100		176		54			750
11-29-68	8.0	85						2.7	7.7	106		182		60			2,800
11-30-68	7.0	75						3.3	7.6	105		152		46			110,000
Nov. Avg.	9.6	85						2.9	7.7	107		164		56			27,629
Max.	13.0	235						4.5	8.2	116		200		123			240,000
Min.	7.0	20						1.5	7.2	100		140		45			150

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
12-1-68	7.0	65				5.2	7.2	7.2	106		156		40			24,000
12-2-68	7.0	45				2.7	7.6	7.6	100		160		47			4,200
12-3-68	7.0	35				1.8	7.7	7.7	100		144		45			9,300
12-4-68	7.0	30		11.8	97	2.2	7.7	7.7	108		150		42			2,000
12-5-68	7.0	290				4.4	7.6	7.6	112		146		45			110,000
12-6-68	5.0	280				4.4	7.9	7.9	106		136		43			15,000
12-7-68	5.0	155				4.5	8.1	8.1	106		148		49			46,000
12-8-68	5.0	135				3.5	7.4	7.4	110		190		55			4,300
12-9-68	4.0	135				2.0	7.7	7.7	100		136		38			9,300
12-10-68	3.0	145				2.1	7.7	7.7	100		140		40			4,300
12-11-68	4.0	65				2.2	7.8	7.8	100		130		40			7,300
12-12-68	3.0	90				1.4	8.0	8.0	100		146		53			2,400
12-13-68	4.0	110				1.6	8.2	8.2	106		166		44			4,300
12-14-68	4.0	125				2.3	8.0	8.0	114		144		44			9,300
12-15-68	4.0	85				2.0	8.0	8.0	98		144		38			15,000
12-16-68	2.0	175				2.1	7.8	7.8	104		136		37			2,400
12-17-68	3.0	180				1.8	7.8	7.8	104		160		38			2,400
12-18-68	2.0	90				2.0	7.2	7.2	92		182		38			4,300
12-19-68	2.0	125				2.4	7.3	7.3	86		174		45			4,300
12-20-68	2.0	135				3.2	7.3	7.3	96		174		45			9,300
12-21-68	1.0	200				1.5	7.2	7.2	98		170		41			240,000
12-22-68	1.0	90				1.8			104		146		44			24,000
12-23-68	2.0	100				2.3	7.4	7.4	96		146		44			21,000
12-24-68	1.0	125				1.9	7.3	7.3	98		138		40			93,000
12-25-68	0.0	145				2.3	7.5	7.5	104		138		40			2,100
12-26-68	0.5	150				3.1	7.4	7.4	98		128		41			7,300
12-27-68	0.5	100				2.6	7.2	7.2	108		160		50			73
12-28-68	0.5	95				3.0	7.5	7.5	100		162		44			1,500
12-29-68	1.0	155				3.2	7.6	7.6	105		184		40			43,000

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg-l

Mentor-on-Lake - E2601																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
12-30-68	1.0	120				3.1	7.6		110		164		48			43,000
12-31-68	0.0	100				3.3	7.0		96		136		46			240,000
Dec. Avg.	3.1	130		11.8	97	2.6	7.6		102		153		43			32,399
Max.	7.0	290		11.8	97	5.2	8.2		114		190		55			240,000
Min.	0.0	30		11.8	97	1.4	7.2		86		130		37			73

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/i

Palmsville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	20.0	10				4.7	7.9	8.9			150		31			430
7-2-68	20.0	10				3.6	8.0	96			160		30			4,600
7-3-68	20.0	20				3.2	8.1	96			166		31			11,000
7-4-68	21.1	10				2.9	8.2	98			170		49			73
7-5-68	21.1	5				2.8	8.4	96			145		31			430
7-6-68	21.1	5				3.3	8.4	98			150		40			11,000
7-7-68	21.1	5				2.9	8.4	94			160		62			11,000
7-8-68	20.0	5				2.5	8.3	95			152		35			930
7-9-68	21.1	5				2.5	8.5	95			140		33			930
7-10-68	21.1	5				2.8	8.3	93			160		30			2,900
7-11-68	20.6	5				3.2	7.7	94			216		109			1,500
7-12-68	20.0	5	370			3.7	7.9	98			160	25	60	0.85	0.50	210
7-13-68	20.0	5				3.1	7.9	94			160		60			930
7-14-68	20.0	5				2.8	7.9	96			144		33			1,500
7-15-68	20.0	5				2.2	8.3	93			150		38			2,100
7-16-68	22.2	5				2.0	8.3	98			152		32			230
7-17-68	22.8	5				2.1	8.5	94			138		36			210
7-18-68	22.8	5				2.2	8.5	94			138		38			2,400
7-19-68	23.3	20	355			2.2	8.5	92			150	20	37	0.10	0.05	4,300
7-20-68	23.3	20				2.7	7.9	84			132		41			110,000
7-21-68	23.3	5				2.9	8.0	86			146		50			4,300
7-22-68	23.3	5				2.9	8.5	94			154		61			9,300
7-23-68	23.3	5				2.7	8.4	92			148		49			150
7-24-68	23.3	5				2.7	8.3	94			178		25			4,300
7-25-68	23.3	5				2.9	8.4	93			144		42			4,300
7-26-68	23.3	5				2.1	8.1	94			166	6	65			430
7-27-68	23.3	5				2.3	8.0	88			176		94			2,900
7-28-68	23.3	5				2.8	8.2	84			162		80			24,000
7-29-68	23.3	10				2.6	8.5	97			134		44			930

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll
7-30-68	22.8	10					2.8	8.3	93		154		25			2,100
7-31-68	22.8	5					2.4	8.5	92		152		39			2,400
July Avg.	21.8	7	363				2.8	8.2	93		166	17	46	0.48	0.28	7,154
Max.	23.3	20	370				4.7	8.5	98		216	50	109	0.55	0.50	110,000
Min.	20.0	5	355				2.0	7.7	84		132	6	25	0.10	0.05	73
8-1-68	23.3	5					2.2	8.5	95		148		33			2,100
8-2-68	23.3	5					2.3	8.5	93		168		64			930
8-3-68	23.3	5					2.5	8.6	96		160		98			930
8-4-68	23.3	5					2.1	8.3	95		164		81			930
8-5-68	23.3	5					2.3	7.4	94		174		72			430
8-6-68	23.3	5					2.0	8.6	93		148		50			430
8-7-68	23.3	5					2.0	8.4	96		154		34			930
8-8-68	23.3	5					1.8	8.6	99		150		35			1,500
8-9-68	24.4	5	282*				1.6	8.7	93		132	23	34	0.20	0.32	230
8-10-68	24.4	5					2.7	8.7	93		160		33			930
8-11-68	24.4	5					3.1	8.7	96		176		142			2,400
8-12-68	23.9	5					2.6	8.4	97		178		72			2,100
8-13-68	23.3	5					2.2	8.4	95		170		67			4,600
8-14-68	23.3	5					2.7	8.7	92		168		76			750
8-15-68	23.3	5					2.7	8.8	93		174		60			2,100
8-16-68	23.3	5					2.8	8.6	94		160	25	70	0.90	0.30	430
8-17-68	23.3	5					2.7	8.7	86		156		50			4,300
8-18-68	23.3	5					2.2	8.5	90		146		39			1,500
8-19-68	23.3	5					2.7	8.3	96		152		94			91
8-20-68	23.9	5					2.6	8.6	97		146		40			9,300
8-21-68	23.9	5					2.1	8.8	93		150		31			91

* Conductivity composite Aug. 3-9 (7 samples)

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
8-22-68	23.9	5				2.4	8.7	98			188		32			91
8-23-68	23.9	5				2.4	8.7	95			140	21	35	0.18	0.20	230
8-24-68	23.9	5				3.6	8.6	94			152		28			430
8-25-68	24.4	15				3.9	8.2	92			128		42			750
8-26-68	24.4	90				3.5	8.1	97			140		39			46,000
8-27-68	24.4	10				3.1	8.6	97			174		74			2,100
8-28-68	23.9	5				3.1	8.7	92			160		37			
8-29-68	23.9	10				2.9	8.7	92			152		56			750
8-30-68	23.3	5	419			2.8	8.8	96			162	32	55	0.68	1.00	91
8-31-68	23.3	5				3.0	8.7	100			188		85			36
Aug. Avg.	23.7	8	299			2.6	8.5	94			159	25	57	0.49	0.46	2,916
Max.	24.4	90	419			3.9	8.8	100			188	32	142	0.90	1.00	46,000
Min.	23.3	5	--			1.6	7.4	86			128	21	28	0.18	0.20	36
9-1-68	23.3	5				2.8	8.6	95			172		68			430
9-2-68	23.3	5				2.6	8.6	97			140		59			91
9-3-68	21.1	5				2.5	8.6	94			162		60			2,100
9-4-68	22.2	5				2.2	8.8	95			148		41			930
9-5-68	22.2	5				2.6	8.8	94			142		44			2,100
9-6-68	22.2	5	258			2.3	8.8	97		161	146	37	50	0.26	0.65	9,300
9-7-68	22.2	15				2.7	8.8	90			158		38			2,300
9-8-68	21.1	5				2.1	8.4	93			144		39			360
9-9-68	22.2	5				2.8	8.4	100			170		75			91
9-10-68	22.2	5				1.9	8.8	95			174		73			360
9-11-68	21.7	5				2.6	8.8	97			160		55			4,300
9-12-68	21.1	10				2.1	8.5	95			188		89			430
9-13-68	21.1	5	410			1.9	8.6	97		256	164	21	54	0.18	0.40	91
9-14-68	21.1	5				2.4	8.6	101			140		42			1,500

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Palmsville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
9-15-68	21.1	5				2.0	8.5	95			146		36			390
9-16-68	21.1	5				2.2	8.6	95			158		49			4,600
9-17-68	21.1	5				2.3	8.7	97			146		45			390
9-18-68	20.0	5				1.7	8.8	98			156		44			430
9-19-68	20.0	5				2.4	8.7	96			174		85			230
9-20-68	20.0	5	453			2.3	8.3	96		283	190	18	79	0.10	0.25	460
9-21-68	20.0	5				2.1	8.0	92			144		81			460
9-22-68	21.1	5				2.4	8.0	92			128		64			11,000
9-23-68	21.1	5				2.0	8.7	98			162		53			750
9-24-68	21.1	5				2.0	8.8	94			164		43			2,300
9-25-68	21.1	5				2.3	8.5	96			154		34			9,300
9-26-68	21.1	10				2.1	8.4	95			158		29			2,300
9-27-68	20.6	5	254			2.3	8.8	97		159	152	21	41	0.18	0.50	360
9-28-68	20.6	10				2.5	8.8	98			160		36			360
9-29-68	20.6	5				3.0	8.8	96			130		38			930
9-30-68	20.6	50				2.8	8.3	97		158			37			36
Sept. Avg.	21.3	7	344			2.3	8.6	96		203	151	24	53	0.18	0.45	1,956
Max.	23.3	50	453			3.0	8.8	101		283	190	37	89	0.26	0.65	11,000
Min.	20.0	5	254			1.7	8.0	90		158	128	18	29	0.10	0.25	36
10-1-68	20.0	10				3.5	8.6	98			148		39			2,100
10-2-68	20.0	5				3.3	8.4	98			140		37			360
10-3-68	20.0	40				3.7	8.2	104			154		36			910
10-4-68	19.4	160				4.4	8.1	97			166		37			24,000
10-5-68	19.4	160				4.9	7.9	98			164		35			9,300
10-6-68	17.2	110				4.1	7.9	98			158		35			4,300
10-7-68	15.0	110				3.2	8.0	99			150		32			9,300
10-8-68	15.6	20				1.9	8.0	99			144		30			4,300

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Palmsville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
10-9-68	15.6	15					2.4	8.1	96		150		30			4,300
10-10-68	15.6	10					2.0	7.9	98		144		30			2,300
10-11-68	15.6	10	310				2.1	7.9	99		134	18	32	0.26	0.60	2,300
10-12-68	16.1	10					2.3	7.9	96		150		30			2,300
10-13-68	16.7	10					2.3	8.4	96		154		26			910
10-14-68	17.2	5					2.5	8.1	99		140		35			300
10-15-68	17.2	5					2.8	8.4	97		134		31			150
10-16-68	16.7	5					1.7	8.4	99		146		28			2,400
10-17-68	16.7	5					2.0	8.5	99		156		29			1,500
10-18-68	17.2	5	348				2.1	8.5	99		130	17	28	0.49	0	730
10-19-68	16.7	5					2.5	8.6	82	218	142		32			1,500
10-20-68	16.1	5					3.0	8.4	92		140		30			24,000
10-21-68	15.6	20		7.6	76		2.1	8.3	99		148		33			730
10-22-68	15.6	15		7.6	76		2.9	8.2	100		130		32			390
10-23-68	15.6	170		7.7	77		4.1	8.3	99		158		29			9,300
10-24-68	15.6	60		7.7	77		3.4	8.0	102		154		30			4,600
10-25-68	15.0	20	395	7.8	77		3.2	8.3	99		168	26	36	0.50	0.42	4,300
10-26-68	13.3	120		8.0	76		2.6	8.2	98	247	154		30			15,000
10-27-68	13.3	60					1.9	8.2	98		150		28			46,000
10-28-68	13.3	170		8.0	76		2.8	8.1	99		166		29			15,000
10-29-68	12.2	98		8.5	78		4.4	8.0	98		158		32			46,000
10-30-68	12.2	140		8.7	80		3.4	8.1	99		146		36			9,300
10-31-68	11.1	120		8.0	73		3.0	8.0	98		158		36			4,300
Oct. Avg.	16.0	55	351	8.0	77		2.9	8.2	98		149	20	32	0.42	0.34	8,135
Max.	20.0	170	395	8.7	80		4.9	8.6	104		168	26	39	0.50	0.60	46,000
Min.	11.1	5	310	7.6	73		1.7	7.9	82		130	17	26	0.26	0	150
11-1-68	11.1	30	326	8.3	75		2.0	8.0	100		158	23	35	0.31	0.75	4,300
11-2-68	12.2	50					1.7	8.4	98		146		25			4,300

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
11-3-68	12.8	30					2.0	8.4	96		150		26			2,000
11-4-68	13.3	10		8.0	76		1.9	8.1	98		146		29			2,300
11-5-68	12.2	10		8.1	75		1.9	8.0	96		180		65			910
11-6-68	13.3	10		8.1	77		1.6	8.0	92		188		72			1,500
11-7-68	13.3	10					1.9	8.0	90		192		62			
11-8-68	13.3	20	366	8.5	80		1.8	8.4	98	229	198	24	72	0.60	0.40	2,300
11-9-68	12.2	60					2.2	8.4	104		172		54			910
11-10-68	11.1	50					2.2	8.4	97		164		32			9,300
11-11-68	10.6	40					2.8	8.0	104		164		36			9,300
11-12-68	11.1	30		8.5	77		2.7	7.9	98		146		36			4,300
11-13-68	8.9	150		9.3	80		2.6	8.0	96		180		77			2,300
11-14-68	7.8	90		9.2	76		2.9	8.0	97		190		58			2,300
11-15-68	7.8	20	387	9.0	75		3.2	7.9	97	242	168	32	54	0.82	0.25	1,500
11-16-68	7.8	80					2.6	8.0	98		140		42			
11-17-68	7.8	40					3.3	8.2	90		148		48			910
11-18-68	10.0	140		8.6	75		3.3	8.0	99		158		30			9,300
11-19-68	8.9	140		9.3	80		4.6	7.9	95		166		26			24,000
11-20-68	7.8	230		9.5	79		6.3	8.1	98		148		38			24,000
11-21-68	7.2	250		9.6	79		6.3	7.9	100		156		39			9,300
11-22-68	7.2	250	298	9.5	78		7.4	7.9	102	186	148	27	41	1.88	3.25	9,300
11-23-68	7.8	175					5.1	8.0	100		152		37			24,000
11-24-68	7.8	170					4.8	7.9	102		150		51			43,000
11-25-68	7.2	120		9.5	78		3.9	7.9	95		168		36			4,300
11-26-68	6.7	50		9.5	76		2.9	7.9	99		148		29			4,300
11-27-68	7.8	80	331	9.8	81		3.0	7.9	94	207	140	23	25	0.62	1.40	9,300
11-28-68	7.8	100					2.4	8.0	95		140		22			2,300
11-29-68	8.3	100					3.5	7.9	89		144		26			9,300
11-30-68	8.3	200					4.0	8.0	90		156		27			9,300

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
Nov. Avg.	9.6	90	341	9.0	77	3.2	8.0	97	213	160	26	42	0.85	1.21	8,219	
Max.	13.3	250	387	9.8	81	7.4	8.4	104	242	198	32	77	1.88	0.25	43,000	
Min.	6.7	10	298	8.0	75	1.7	7.9	89	186	140	23	22	0.31	3.25	910	
12-1-68	7.8	200					7.8	90			140	29			2,300	
12-2-68	7.8	140		9.6	80		7.9	93			164	33			15,000	
12-3-68	7.8	60		9.6	80		7.9	94			148	27			2,300	
12-4-68	7.8	40		9.6	80		8.0	93			146	30			4,300	
12-5-68	7.8	160		9.8	81		7.9	96			168	33			46,000	
12-6-68	6.1	400		10.1	81		7.9	97			178	36			24,000	
12-7-68	6.1	200					7.9	103			164	38			240,000	
12-8-68	5.6	200					8.0	94			160	33			24,000	
12-9-68	5.6	130		10.3	82		7.9	93			130	25			9,300	
12-10-68	3.3	70		10.2	76		8.0	93			180	34			4,300	
12-11-68	3.3	120					7.9	94			170	37			910	
12-12-68	3.3	90		10.3	77		7.9	92			152	35			4,300	
12-13-68	3.3	120	393	10.6	79		7.9	92	246		152	28	0.15	0.14	2,300	
12-14-68	3.3	120					7.8	90			124	38			9,300	
12-15-68	2.2	120					8.0	92			128	36			240,000	
12-16-68	2.2	250		11.2	81		7.9	96			144	26			2,300	
12-17-68	2.2	160		11.1	81		7.9	91			132	24			7,500	
12-18-68	2.2	100		11.1	81		7.9	93			156	30			4,300	
12-19-68	2.2	100				1.5	7.9	100			156	28			9,300	
12-20-68	2.2	120				3.4	7.9	92			160	29			15,000	
12-21-68	2.2	120	339			3.3	7.9	94	212		162	25	0.62	0.50	240,000	
12-22-68	2.2	140				2.2	7.9	94			130	28			110,000	
12-23-68	2.2	110				3.9	7.6	97			140	24			9,300	
12-24-68	1.7	220				4.0	7.4	97			146	22			46,000	
12-25-68	1.7	210				5.2	7.8	98			150	28			46,000	
12-26-68	1.1	250				8.7	7.8	94			150	27			9,300	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-27-68	1.1	200				4.0	7.6	91			160		21			4,300
12-28-68	1.1	200	301			3.9	7.9	89		188	142	18	34	0.55	1.25	2,300
12-29-68	1.7	250				4.6	7.8	85			140		28			110,000
12-30-68	1.7	100		15.0	107	3.6	7.9	94			152		30			46,000
12-31-68	1.1	180		15.0	106	4.6	7.8	84			136		39			46,000
Dec. Avg.	3.5	160	344	11.0	84	4.1	7.8	93		215	150	19	30	0.44	0.63	43,094
Max.	7.8	400	393	9.6	107	5.2	8.0	103		246	180	22	39	0.62	1.25	240,000
Min.	1.1	40	301	15.0	76	1.5	7.4	84		188	124	17	22	0.15	0.14	910

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	19.4	15				2.0	8.0	8.0	92		146					430
7-2-68	20.0	20				2.0	8.0	8.0	91		153					230
7-3-68	20.0	20				2.2	8.1	8.1	89		149					930
7-4-68	19.4	10				1.6	8.1	8.1	89		139					750
7-5-68	19.4	10				1.7	8.0	8.0	91		142					430
7-6-68	19.4	4				1.5	8.0	8.0	93		141					210
7-7-68	19.4	4				1.8	7.9	7.9	93		139					930
7-8-68	19.4	4				1.7	8.0	8.0	93		140					430
7-9-68	20.0	8				1.7	8.0	8.0	93		142					2,400
7-10-68	20.6	9				1.5	7.9	7.9	92		143					150
7-11-68	18.9	8				2.1	7.7	7.7	91		140					91
7-12-68	17.8	5				2.2	7.5	7.5	100		139					230
7-13-68	17.8	8				2.0	7.5	7.5	96		141					230
7-14-68	17.2	4				2.3	7.3	7.3	93		141					930
7-15-68	17.8	10				1.7	7.5	7.5	93		139					2,400
7-16-68	21.1	25				1.4	8.2	8.2	93		141					430
7-17-68	22.2	10				1.7	8.3	8.3	91		140					230
7-18-68	22.2	8				1.5	8.3	8.3	93		142					91
7-19-68	22.8	35				1.6	8.3	8.3	95		144					430
7-20-68	22.8	20				1.6	8.3	8.3	93		144					430
7-21-68	22.8	10				1.6	8.3	8.3	95		143					91
7-22-68	22.2	15				1.6	8.3	8.3	97		141					280
7-23-68	22.8	15				1.6	8.3	8.3	97		146					230
7-24-68	22.8	20				1.4	8.3	8.3	94		141					750
7-25-68	22.8	10				1.4	8.3	8.3	92		143					230
7-26-68	22.8	9				1.4	8.3	8.3	92		143					390
7-27-68	22.8	10				1.3	8.3	8.3	93		143					930

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
7-28-68	22.8	25				1.5	8.3		94		145					230
7-29-68	22.8	45				1.4	8.3		95		147					95
7-30-68	22.8	20				1.5	8.3		91		149					91
7-31-68	22.8	15				1.4	8.3		91		130					430
July Avg.	20.9	15				1.7	8.1		93		142					521
Max.	22.8	45				2.3	8.3		100		153					2,400
Min.	17.2	4				1.4	7.3		89		130					91
8-1-68	22.8	20				1.3	8.3		92		150					430
8-2-68	22.8	10				1.4	8.3		93		153					1,500
8-3-68	22.8	9				1.4	8.3		93		151					430
8-4-68	22.8	15				1.5	8.3		96		155					150
8-5-68	22.8	10				1.4	8.3		94		149					390
8-6-68	22.8	20				1.5	8.3		94		151					750
8-7-68	23.9	10				1.4	8.3		95		159					930
8-8-68	23.9	7				1.5	8.3		93		156					210
8-9-68	24.4	8				1.6	8.3		89		163					930
8-10-68	25.0	15				1.8	8.3		88		162					2,400
8-11-68	23.9	40				1.8	8.2		89		165					4,600
8-12-68	23.9	10				1.6	8.3		91		161					930
8-13-68	23.3	9				1.8	8.3		94		156					750
8-14-68	23.3	9				1.5	8.3		95		157					230
8-15-68	23.3	7				1.8	8.3		94		153					2,100
8-16-68	23.3	8				1.6	8.3		95		149					4,600
8-17-68	23.9	15				1.7	8.3		93		150					4,600
8-18-68	23.3	15				1.8	8.3		94		152					750

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
8-19-68	23.3	9				1.8	8.3	94			147					930
8-20-68	23.3	25				1.9	8.3	93			147					2,400
8-21-68	23.9	10				1.8	8.3	95			158					430
8-22-68	23.9	8				1.9	8.4	92			165					390
8-23-68	24.4	7				1.9	8.4	95			164					930
8-24-68	25.6	5				1.8	8.4	92			152					230
8-25-68	25.6	50				2.1	8.4	94			149					750
8-26-68	24.4	90				3.2	8.4	92			156					2,400
8-27-68	23.3	55				2.6	8.4	91			155					2,100
8-28-68	22.8	25				2.3	8.4	95			148					2,400
8-29-68	22.8	40				1.6	8.4	93			144					930
8-30-68	22.8	15				1.9	8.4	93			146					430
8-31-68	22.2	8				1.7	8.4	89			142					1,500
Aug. Avg.	23.6	20				1.8	8.3	93			154					1,371
Max.	25.6	90				3.2	8.4	96			165					4,600
Min.	22.2	5				1.3	8.2	88			142					150
9-1-68	22.2	8				1.5	8.4	92			143					1,500
9-2-68	21.1	20				1.5	8.4	92			141					430
9-3-68	21.1	20				1.7	8.4	93			142					2,400
9-4-68	21.1	15				1.5	8.4	89			141					750
9-5-68	21.1	8				1.4	8.4	93			147					2,400
9-6-68	21.7	30				1.6	8.4	95			147					930
9-7-68	21.7	40				1.9	8.3	93			153					2,400
9-8-68	21.1	15				1.3	8.3	89			152					2,400
9-9-68	21.1	6				1.4	8.4	90			150					930
9-10-68	21.1	8				1.5	8.4	91			151					2,400
9-11-68	21.1	25				1.6	8.4	88			151					2,400

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
9-12-68	20.6	45				1.8	8.3	8.3	93		150					430
9-13-68	20.6	30				1.6	8.3	8.3	93		150					2,400
9-14-68	20.6	15				1.4	8.3	8.3	92		160					930
9-15-68	21.1	8				1.6	8.4	8.4	94		156					230
9-16-68	21.1	7				1.7	8.4	8.4	94		153					930
9-17-68	21.1	7				1.7	8.3	8.3	96		152					230
9-18-68	20.6	8				1.1	8.3	8.3	93		151					230
9-19-68	21.1	8				1.3	8.3	8.3	95		153					2,400
9-20-68	20.6	8				1.5	8.4	8.4	94		152					930
9-21-68	20.6	8				1.5	8.4	8.4	95		153					4,600
9-22-68	20.6	10				1.1	8.3	8.3	96		154					2,400
9-23-68	20.6	9				1.4	8.3	8.3	96		153					430
9-24-68	21.1	8				1.3	8.3	8.3	97		153					2,400
9-25-68	21.7	15				1.3	8.3	8.3	95		151					4,600
9-26-68	21.1	25				1.5	8.3	8.3	93		151					1,500
9-27-68	20.6	15				1.5	8.3	8.3	95		158					4,600
9-28-68	20.0	20				1.4	8.3	8.3	98		164					2,100
9-29-68	20.0	15				1.4	8.4	8.4	95		163					930
9-30-68	19.4	45				1.6	8.4	8.4	97		156					430
Sept. Avg.	20.9	15				1.5	8.3	8.3	94		152					1,721
Max.	22.2	45				1.1	8.4	8.4	98		163					4,600
Min.	19.4	6				1.9	8.3	8.3	88		141					230
10-1-68	19.4	30				1.5	8.3	8.3	97		159					930
10-2-68	19.4	20				1.7	8.3	8.3	96		153					2,400
10-3-68	19.4	40				1.9	8.3	8.3	93		153					750
10-4-68	18.3	130				3.4	8.3	8.3	96		153					2,400
10-5-68	16.7	115				2.8	8.2	8.2	93		149					11,000

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
10-6-68	16.1	70				2.5	8.0		93		145					4,600
10-7-68	16.7	60				2.3	8.1		93		143					4,600
10-8-68	16.7	35				1.7	8.1		95		143					930
10-9-68	16.7	35				1.7	8.1		97		141					2,400
10-10-68	16.7	25				1.5	8.0		94		143					2,400
10-11-68	16.1	20				1.6	8.1		95		142					2,400
10-12-68	15.6	15				1.4	8.0		96		142					930
10-13-68	16.1	9				1.4	8.1		96		143					2,400
10-14-68	16.1	9				1.4	8.1		95		143					930
10-15-68	16.7	8				1.3	8.2		97		142					1,500
10-16-68	16.7	7				1.2	8.2		94		146					930
10-17-68	16.7	8				1.3	8.1		94		143					930
10-18-68	17.2	9				1.4	8.2		96		143					430
10-19-68	17.2	25				1.5	8.2		95		145					230
10-20-68	17.2	25				1.3	8.2		98		146					430
10-21-68	16.7	40				1.5	8.3		95		148					2,400
10-22-68	15.6	15				1.4	8.2		95		147					4,600
10-23-68	16.0	85				2.8	8.2		91		146					4,600
10-24-68	15.4	55				2.2	8.1		95		147					2,400
10-25-68	15.0	76				2.6	8.1		98		151					1,500
10-26-68	14.3	95				2.9	8.1		97		145					4,600
10-27-68	14.0	85				2.4	8.1		95		148					1,500
10-28-68	13.2	80				2.7	8.0		96		150					930
10-29-68	12.3	95				2.1	8.1		98		147					11,000
10-30-68	12.0	100				2.4	8.0		95		151					11,000
10-31-68	12.0	100				1.9	8.0		95		151					4,600
Oct. Avg.	16.1	50				1.9	8.1		95		147					2,989
Max.	17.2	130				3.4	8.3		98		159					11,000
Min.	12.0	7				1.2	8.0		91		141					230

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
11-1-68	12.1	25				1.5	8.0	95			141					230
11-2-68	12.1	45				1.5	7.9	93			141					2,400
11-3-68	12.9	30				1.5	8.0	94			143					2,400
11-4-68	12.5	20				1.4	8.0	93			143					930
11-5-68	13.0	20				1.4	8.0	93			143					2,400
11-6-68	12.5	40				1.4	8.0	92			141					2,400
11-7-68	12.1	40				1.4	8.1	95			141					930
11-8-68	11.8	50				1.3	8.1	93			141					430
11-9-68	11.4	60				1.4	8.1	91			141					2,400
11-10-68	10.8	55				1.5	8.0	93			159					4,600
11-11-68	10.8	50				1.4	8.1	95			159					2,400
11-12-68	10.2	60				1.3	8.0	93			149					4,600
11-13-68	10.0	60				1.5	8.0	94			134					2,400
11-14-68	9.2	65				1.2	8.0	92			138					930
11-15-68	9.0	70				1.7	8.0	92			138					230
11-16-68	9.0	75				1.4	8.0	90			142					430
11-17-68	9.0	95				1.4	8.0	92			140					430
11-18-68	9.6	70				2.0	7.9	92			140					230
11-19-68	8.6	130				2.0	7.9	88			144					24,000
11-20-68	7.6	150				3.4	7.9	92			130					24,000
11-21-68	7.0	165				4.4	7.9	94			140					24,000
11-22-68	7.0	145				3.6	8.1	94			136					4,300
11-23-68	6.8	90				2.5	7.9	94			134					9,300
11-24-68	7.0	115				3.9	7.9	96			146					15,000
11-25-68	7.0	110				3.3	7.9	94			144					4,300
11-26-68	7.0	75				2.5	8.0	96			150					1,400
11-27-68	7.0	115				3.0	7.8	94			156					2,400
11-28-68	6.9	50				2.3	7.9	92			144					2,400
11-29-68	7.4	80				2.3	8.1	100			142					2,400
11-30-68	7.0	95				2.1	7.9	96			140					930

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/i

Madison - G3001																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
Nov. Avg.	9.5	75							93		143					4,840
Max.	13.0	150							100		159					24,000
Min.	6.8	20							88		140					230
12-1-68	6.7	45							90		146					4,600
12-2-68	7.0	60							90		140					600
12-3-68	6.7	70							86		144					2,400
12-4-68	6.8	40							92		140					930
12-5-68	6.0	100							92		140					4,600
12-6-68	6.0	240							88		140					11,000
12-7-68	5.0	245							92		136					24,000
12-8-68	4.5	175							90		132					11,000
12-9-68	3.9	190							84		128					11,000
12-10-68	3.8	170							84		138					2,400
12-11-68	3.4	95							95		130					4,600
12-12-68	3.5	60							86		134					4,600
12-13-68	3.5	125							92		128					4,600
12-14-68	4.2	120							90		130					4,600
12-15-68	2.7	130							86		140					4,600
12-16-68	2.6	145							88		139					2,400
12-17-68	2.7								86		138					430
12-18-68	2.0	80							86		136					230
12-19-68	2.2	60							98		130					930
12-20-68	2.0	125							86		130					2,400
12-21-68	2.2	180							90		144					2,400
12-22-68	2.5	95							88		150					4,600
12-23-68	2.0	90							90		146					4,600
12-24-68	1.6	140							88		136					24,000
12-25-68	1.2	140							84		132					24,000

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
12-26-68	1.1	115				2.9	7.8	86			128					4,300
12-27-68	1.1	95				2.1	7.8	84			132					9,300
12-28-68	1.5	115				1.8	7.8	88			128					4,300
12-29-68	1.2	110				2.9	7.9	82			164					4,300
12-30-68	1.4	200				3.2	7.7	76			140					46,000
12-31-68	1.4	155				2.4	7.7	80			136					9,300
Dec. Avg.	3.3	125				2.7	7.8	88			137					7,710
Max.	7.0	245				5.9	8.0	98			164					46,000
Min.	1.1	45				1.6	7.7	76			128					230

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-29-68	23.3	25		7.6	88	0.9	8.2	91	--	--	138	--	--	0.38	0	18
7-30-68	23.3	10		7.8	90	1.0	8.0	89	218	218	136	28	30	0.20	0	2
7-31-68	23.9	6		7.8	92	1.0	8.0	91	--	--	132	--	--	--	--	4
July Avg.	23.5	15		7.7	90	1.0	8.1	90	218	218	135	28	30	0.29	0	8
Max.	23.9	25		7.8	92	1.0	8.2	91	218	218	138	28	30	0.38	0	18
Min.	23.3	6		7.6	88	0.9	8.0	89	218	218	132	28	30	0.20	0	2
8-1-68	23.9	6		7.6	90	1.0	8.0	90			132					2
8-2-68	23.3	8		7.6	88	1.0	8.0	89			130					10
8-3-68	22.8	8		7.8	90	1.0	7.9	89			130					2
8-4-68	23.3	7		7.4	85	1.0	8.0	88			132					2
8-5-68	23.3	10		7.8	90	1.0	8.1	88			138					8
8-6-68	24.4	15		7.6	90	0.9	8.1	88			134					29
8-7-68	24.4	10		7.8	93	0.9	8.1	87			140					4
8-8-68	24.4	7		7.6	90	0.9	8.1	86			134					14
8-9-68	24.4	5		7.8	92	1.0	8.2	86			136					32
8-10-68	25.0	5		8.0	95	1.1	8.1	88	232	232	136	24	36	0.32	0	2
8-11-68	25.0	6		7.8	93	0.9	8.1	88			138					22
8-12-68	24.4	7		7.2	85	1.0	8.1	87			138					6
8-13-68	23.9	4		7.4	87	1.0	8.2	89			144					11
8-14-68	23.9	8		7.6	89	0.9	8.2	87			140					2
8-15-68	24.4	6		7.6	90	1.0	8.1	88			140					2
8-16-68	23.3	5		7.2	83	1.0	8.1	89			134					4
8-17-68	24.4	5		8.0	95	0.9	8.3	89	240	240	134	19	39	0.06	0	11
8-18-68	24.4	3		7.2	85	1.0	8.2	87			134					6
8-19-68	23.6	7		7.6	88	0.9	8.3	87			138					8
8-20-68	23.8	10		7.4	86	0.9	8.2	87			138					4
8-21-68	24.4	9		7.4	88	0.9	8.2	87			140					4

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES.
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
8-22-68	24.4	8		7.0	83	1.0	8.2	86			142	19	33	0.10	0	9
8-23-68	25.0	3		7.2	85	0.8	8.3	86		250	130					360
8-24-68	25.5	5		7.2	86	0.8	8.1	86			150					340
8-25-68	26.6	5		7.1	88	1.0	8.1	82			150					8
8-26-68	25.6	30		7.4	90	1.0	8.1	80			150					26
8-27-68	24.4	15		7.6	90	1.1	8.2	82			148					29
8-28-68	24.4	10		7.4	88	1.0	8.3	82			148					42
8-29-68	23.9	10		7.4	87	1.1	8.3	83			146					20
8-30-68	22.2	15		7.6	87	1.0	8.5	85			146					16
8-31-68	23.3	10		7.0	81	1.1	8.5	84		228	146	23	35	0.02	0	40
Avg.	24.2	15		7.5	88	1.0	8.2	86		237	139	21	36	0.13	0	35
Max.	26.6	30		8.0	95	1.1	8.5	90		250	150	24	39	0.32	0	360
Min.	22.8	3		7.0	81	0.8	7.9	80		228	130	19	33	0.02	0	2
9-1-68	23.3	15		7.6	88	1.2	8.4	84			146					10
9-2-68	25.0	20		7.6	91	1.2	8.4	82			144					7
9-3-68	22.8	15		7.8	90	1.0	8.4	83			144					20
9-4-68	22.8	15		7.6	88	0.9	8.4	84			142					40
9-5-68	22.2	10		7.6	87	1.0	8.4	84								11
9-6-68	22.8	15		7.8	90	0.9	8.5	83		238	144	18	32	0.24	0	20
9-7-68	22.2	30		7.8	88	0.9	8.3	83			140					16
9-8-68	22.2	20		7.8	88	1.0	8.3	84			140					20
9-9-68	22.2	35		8.0	91	1.0	8.4	85			136					40
9-10-68	22.2	30		8.0	91	0.9	8.3	84			136					28
9-11-68	22.2	80		8.2	94	0.9	8.3	83			134					11
9-12-68	21.7	85		8.2	93	0.9	8.3	83			134					110
9-13-68	21.7	110		8.4	95	0.9	8.3	84			138	24	30	0.70	0	8
9-14-68	21.7	75		8.2	93	0.9	8.1	83			136					30

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-15-68	22.2	30		8.4	95	0.7	8.1	8.1	83		138					30
9-16-68	22.2	20		8.0	91	0.8	8.1	8.1	84		136					4
9-17-68	22.8	20		8.2	94	0.9	8.1	8.1	84		136					16
9-18-68	21.1	30		8.0	90	0.9	8.1	8.1	83		132					12
9-19-68	21.1	15		8.0	90	0.8	8.0	8.0	85	244	134	22	30	0.06	0	32
9-20-68	21.7	10		8.2	93	0.9	8.1	8.1	86		136					11
9-21-68	21.7	5		8.2	93	0.9	8.1	8.1	86		134					16
9-22-68	21.7	8		8.4	95	1.0	8.1	8.1	86		138					4
9-23-68	22.2	10		8.6	98	0.9	8.1	8.1	85		138					4
9-24-68	22.2	8		8.4	95	0.9	8.1	8.1	86		136					8
9-25-68	22.2	6		8.0	90	0.9	8.2	8.2	84		134					12
9-26-68	22.8	8		8.2	95	0.9	8.2	8.2	85	234	134	18	27	0.32	0	11
9-27-68	21.7	15		8.4	95	0.9	8.1	8.1	82		140					20
9-28-68	21.7	15		8.0	90	0.9	8.1	8.1	82		140					8
9-29-68	21.7	10		8.4	95	0.9	8.0	8.0	86		140					18
9-30-68	20.2	120		8.6	95	1.0	8.0	8.0	84		144					560
Sept. Avg.	22.1	30		8.1	92	0.9	8.2	8.2	84	239	138	20	30	0.33	0	38
Max.	25.0	120		8.6	98	1.2	8.4	8.4	86	244	146	24	32	0.70	0	560
Min.	20.2	6		7.6	87	0.7	8.0	8.0	82	234	132	18	27	0.06	0	4
10-1-68	20.6	130		8.0	90	0.9	8.0	8.0	85		144					360
10-2-68	20.0	95		8.2	90	0.7	8.0	8.0	86		146					560
10-3-68	20.6	110		8.2	91	0.6	8.1	8.1	85		146					240
10-4-68	18.9	200		8.2	97	0.6	8.1	8.1	86	232	144	24	32	0.32	0	170
10-5-68	17.8	150		8.0	84	0.6	8.1	8.1	85		150					1,060
10-6-68	20.0	60		8.0	90	0.5	8.1	8.1	90		146					1,115
10-7-68	17.8	30		7.8	80	0.5	8.1	8.1	92		146					190
10-8-68	17.8	25		8.0	82	0.5	8.1	8.1	92		146					375
10-9-68	17.8	20		8.2	85	0.5	8.0	8.0	93		148					55

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-10-68	17.8	10		8.2	85	0.5	8.0	92			144	20	27	0.10	0	130
10-11-68	17.2	10		8.2	84	0.5	8.0	94		250	144					40
10-12-68	16.7	10		8.0	81	0.4	8.1	94			140					24
10-13-68	17.2	10		8.2	84	0.5	8.1	95			140					36
10-14-68	17.8	10		8.2	85	0.5	8.1	93			134					20
10-15-68	17.8	8		8.4	87	0.6	8.1	94			130					110
10-16-68	17.2	35		8.4	86	0.6	8.1	95			132					28
10-17-68	17.2	50		8.6	89	0.7	8.1	94		240	130	16	20	0.10	0	28
10-18-68	17.8	40		8.2	85	0.7	8.1	96			132					24
10-19-68	17.2	10		8.6	89	0.6	8.1	96			134					31
10-20-68	17.8	25		8.2	85	0.9	8.1	96			136					29
10-21-68	16.7	10		8.6	88	0.8	8.0	94			136					2,450
10-22-68	16.6	10		8.6	88	0.8	8.0	94			136	20	28	0.12	0	830
10-23-68	15.6	60		9.0	90	0.9	8.0	97			136					840
10-24-68	16.1	45		9.2	93	0.7	8.1	93			134					450
10-25-68	15.6	15		9.2	92	0.8	8.1	98			144					223
10-26-68	15.0	80		9.8	97	0.9	8.0	94		228	140	22	32	0.36	0	2,520
10-27-68	14.4	110		9.2	90	0.9	8.0	95			140					4,600
10-28-68	14.4	30		9.0	89	0.8	8.0	94			140					7,250
10-29-68	14.4	60		9.4	92	0.8	8.1	90			140					1,530
10-30-68	12.2	110		9.4	87	0.9	8.1	92			142					6,200
10-31-68	12.2	95		9.6	89	0.9	8.0	93			140					620
Oct. Avg.	17.0	54		8.6	88	0.7	8.1	92		237	140	20	28	0.20	0	1,027
Max.	20.6	200		9.8	97	0.9	8.1	98		250	150	24	32	0.36	0	7,250
Min.	12.2	8		7.8	80	0.4	8.0	85		228	130	16	20	0.10	0	20
11-1-68	12.8	20		9.6	90	0.7	8.0	94		248	138	17	24	0.36	0	335
11-2-68	12.8	45		9.6	90	0.7	7.9	94			138					1,250

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
11-3-68	13.3	40		9.6	91	0.6	7.9	96			142					400
11-4-68	14.4	70		9.6	94	0.7	7.9	96			144					1,575
11-5-68	13.3	30		9.8	93	0.7	7.8	95			140					655
11-6-68	13.9	20		10.0	96	0.6	7.7	95		248	140	15	27	0.27	0	320
11-7-68	14.4	20		10.0	98	0.7	7.9	94			142					220
11-8-68	14.4	25		10.0	98	0.6	8.0	95			140					280
11-9-68	14.4	20		9.8	96	0.7	8.0	94			138					510
11-10-68	12.2	20		9.8	90	0.7	7.9	93			138					1,240
11-11-68	12.2	20		10.0	92	0.6	7.9	94			138					56
11-12-68	12.2	25		9.8	90	0.6	8.0	97			142					675
11-13-68	10.0	35		10.0	88	0.6	8.0	97			144					310
11-14-68	8.9	30		10.8	94	0.6	7.9	96		222	138	20	27	0.29	0	350
11-15-68	8.9	20		10.4	90	0.7	7.9	92			142					130
11-16-68	8.9	25		10.4	90	0.7	7.9	93			138					137
11-17-68	8.9	15		10.2	87	0.7	7.9	85			136					165
11-18-68	8.9	30		10.6	91	0.7	7.9	95			140					165
11-19-68	8.9	40		10.8	94	0.7	7.9	96		218	136	12	28	0.34	0	385
11-20-68	7.8	125		11.0	93	0.8	7.9	93			144					1,950
11-21-68	7.8	290		10.6	89	0.8	7.9	95			150					17,900
11-22-68	7.8	120		10.8	90	0.8	7.9	96			136					11,600
11-23-68	7.8	95		10.8	90	0.8	7.9	95			144					7,450
11-24-68	7.2	95		11.0	91	0.7	7.9	95			140					900
11-25-68	8.9	120		11.2	96	0.8	7.9	96			140					8,000
11-26-68	7.8	100		11.0	92	0.8	7.9	94		228	142	16	30	0.22	0	2,350
11-27-68	7.8	80		11.4	96	0.7	7.9	94			138					3,450
11-28-68	7.8	90		11.4	96	0.7	7.9	93			138					520
11-29-68	7.8	75		11.6	98	0.7	7.9	93			136					1,275
11-30-68	7.8	75		11.4	96	0.7	7.9	92			142					1,080

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
Nov. Avg.	10.3	60		10.4	93	0.7	7.9		94	233	140	16	27	0.30	0	2,188
Max.	14.4	290		11.6	98	0.8	8.0		97	248	150	20	30	0.36	0	17,900
Min.	7.2	15		9.6	87	0.6	7.7		85	218	136	12	24	0.22	0	56
12-1-68	6.7	60		11.2	91	0.7	7.9		92		138					550
12-2-68	6.7	75		11.4	93	0.8	7.9		93		140					220
12-3-68	6.7	95		11.0	90	0.8	7.9		95		140					1,900
12-4-68	7.2	80		11.4	95	0.8	7.9		95		144					4,200
12-5-68	6.7	220		11.6	95	0.9	7.9		96	288	140	18	30	0.45	0	6,700
12-6-68	6.7	140		11.4	93	0.8	7.9		98		136					6,700
12-7-68	5.6	350		11.8	94	0.9	7.9		96		144					20,000
12-8-68	4.4	330		12.0	93	0.7	7.9		96		144					12,200
12-9-68	4.4	150		11.6	89	0.7	7.9		97		138					5,600
12-10-68	4.4	110		11.4	87	0.7	7.9		98		138					1,530
12-11-68	3.9	60		11.6	89	0.6	7.9		98		136					1,200
12-12-68	3.9	40		11.4	87	0.6	7.9		97	264	140	16	26	0.18	0	850
12-13-68	3.3	65		11.6	86	0.7	7.9		96		144					1,775
12-14-68	3.3	50		11.8	87	0.6	7.9		97		144					3,700
12-15-68	3.3	75		12.2	91	0.7	7.9		96		136					1,675
12-16-68	2.2	140		12.2	89	0.7	7.9		96		136					1,515
12-17-68	2.2	120		12.0	87	0.7	7.9		94		142					2,050
12-18-68	2.2	100		12.8	93	0.7	7.9		97		140					1,150
12-19-68	1.7	90		12.4	89	0.6	7.9		95		140					2,425
12-20-68	1.7	120		12.4	89	0.6	7.9		96	254	140	15	28	0.34	0	3,250
12-21-68	1.7	280		12.4	89	0.7	7.9		97		148					5,700
12-22-68	1.7	170		13.4	97	0.7	7.9		95		142					680
12-23-68	2.2	120		13.2	94	0.6	7.9		95		140					725
12-24-68	2.2	140		12.8	93	0.7	7.9		95		138					1,500

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-25-68	1.1	190		13.0	92	0.7	7.9	96			136					5,900
12-26-68	1.1	100		13.2	93	0.7	7.9	95			134					4,600
12-27-68	1.1	130		12.8	91	0.7	7.9	94		232	134	13	32	0.42	0	1,200
12-28-68	2.2	110		13.0	95	0.7	7.9	92			124					2,275
12-29-68	1.1	220		13.2	93	0.8	7.7	91			126					7,900
12-30-68	1.1	270		13.6	97	0.8	7.8	90			136					3,750
12-31-68	1.1	80		13.6	97	0.8	7.8	90			130					400
Dec. Avg.	3.3	140		12.2	91	0.7	7.9	95		259	138	15	29	0.35	0	3,671
Max.	7.2	350		13.4	97	0.9	7.9	98		288	148	18	32	0.45	0	20,000
Min.	1.1	80		11.0	86	0.6	7.7	90		232	124	13	26	0.18	0	220

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
7-1-68	19.0	20				0.7	7.6	85								460
7-2-68	19.0	6				0.9	7.7	89								210
7-3-68	19.0	8				1.1	7.6	95								75
7-4-68	20.0	6				0.9	7.6	89								93
7-5-68	20.0	8				0.9	7.7	92								75
7-6-68	20.0	4				0.8	7.6	87								23
7-7-68	20.0	4				0.8	7.6	90								9
7-8-68	20.0	4	200	16.6	180	0.8	7.6	90						.006	.002	9
7-9-68	20.0	4	720	11.0	120	0.5	7.6	92			130					75
7-10-68	20.0	6				0.7	7.7	90			130					15
7-11-68	20.0	3				0.7	7.7	90			130					35
7-12-68	20.0		280	9.0	97	0.5	7.6	91			130					15
7-13-68	20.0	4	290	8.3	90	0.7	7.6	91			130					9
7-14-68	21.0	3	310	11.0	121	0.8	7.7	98			130					23
7-15-68	21.0	4	380	11.4	126	0.7	7.7	97			130			.006	.020	43
7-16-68	21.0	8	420	12.0	133	0.6	7.7	90			130					75
7-17-68	21.0	4		8.7	97	0.5	7.7	94			128	24		0	0	75
7-18-68	24.0	4	350	8.8	103	0.6	7.7	90			128					210
7-19-68	24.0	40	220	16.0	188	0.7	7.7	91			128					23
7-20-68	24.0	6	290	10.0	118	0.7	7.7	100			128	21				64
7-21-68	24.0	4	320	10.0	118	0.8	7.7	92			128	19				43
7-22-68	23.0	6	340	9.2	105	0.6	7.7	95			128	16		.010	.013	93
7-23-68	24.0	4	340	9.4	110	0.7	7.6	92			128	24				75
7-24-68	23.0	4	280	9.5	110	0.7	7.7	92			128	24				43
7-25-68	23.0	4	280	8.6	99	0.9	7.7	92			128	14				75
7-26-68	24.0	4	240	9.4	110	0.9	7.7	95			128	19				150
7-27-68	24.0	4	380	10.2	120	0.9	7.7	94			128	21				75
7-28-68	24.0	6	410	9.7	114	0.9	7.7	94			128	17		.008	.009	150

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
7-29-68	24.0	4	420	9.2	108	0.6	7.6	93			128					43
7-30-68	23.0	4	420	8.5	107	0.4	7.7	85			128					39
7-31-68	23.0	6		8.2	95	0.4	7.7	95			130	16	29	.080	.020	9
July Avg.	21.6	6	344	10.2	117	0.7	7.7	92			129	20	29	.018	.011	78
Max.	24.0	40	720	16.6	188	1.1	7.7	100			130	24	29	.080	.020	460
Min.	19.0	3	200	8.2	90	0.4	7.6	85			128	16	29	.000	.000	9
8-1-68	23.0	6		8.9	102	0.6	7.6	97			130					11
8-2-68	23.0	4		8.2	95	0.6	7.7	100			130					20
8-3-68	23.3	4		9.0	105	0.6	7.7	95			130					7
8-4-68	23.8	4		10.2	119	0.7	7.7	97			130					14
8-5-68	24.0	4		10.0	116	0.7	7.7	92			130		31			9
8-6-68	23.8	4		9.0	105	0.6	7.7	90			130					15
8-7-68	24.0	4		8.8	103	0.6	7.7	94			130					210
8-8-68	24.0	4		8.8	103	0.7	7.7	93			130	29	35	0	0	2,400
8-9-68	25.0	4		9.2	109	0.6	7.7	98			130			0.008	0.009	20
8-10-68	25.0	6		9.0	106	0.7	7.6	91			130	19				43
8-11-68	24.4	6		8.4	100	0.9	7.7	94			130					75
8-12-68	23.8	6		8.8	102	1.0	7.7	95			130					9
8-13-68	23.8	4		10.3	120	0.8	7.7	100			130					93
8-14-68	23.8	4		9.3	108	0.8	7.7	97			130					7
8-15-68	23.3	4		7.7	90	0.7	7.7	100			130	19	29	0	0	7
8-16-68	23.3	6		8.4	98	0.9	7.7	101			130					23
8-17-68	24.4	8		9.0	106	0.9	7.7	97			130	27				24
8-18-68	23.3	8		8.6	100	1.3	7.7	100			130					150
8-19-68	23.3	6		7.6	89	1.1	7.7	97			130					11
8-20-68	23.3	8		7/8	90	1.1	7.7	100			130					75

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
8-21-68	24.4	6		7.6	90	1.2	7.7	97			130	26				9
8-22-68	24.4	6		7.5	89	1.5	7.7	96			130	39				39
8-23-68	25.5			8.5	103	1.7	7.7	96			130					64
8-24-68	25.5	8		7.9	95	1.1	7.7	102			130					9
8-25-68	25.5	16		7.5	90	1.1	7.7	95			130					20
8-26-68	24.4	30		6.5	76	1.3	7.7	96			130	29		0.02	0.12	150
8-27-68	24.4	30		7.0	83	0.7	7.7	96			130					14
8-28-68	24.4	6		8.7	103	0.8	7.7	91			130					120
8-29-68	22.8	4		8.7	99	0.8	7.7	96			130					20
8-30-68	22.8	11		7.0	80	1.4	7.7	98			130					35
8-31-68	22.2	6		9.8	110	1.2	7.7	98			130					11
Aug. Avg.	23.9	7		8.5	99	.9	7.7	96			130	27	32	0.014	0.065	120
Max.	25.0	30		10.3	120	1.7	7.7	101			130	39	35	0.02	0.12	2,400
Min.	22.2	4		6.5	76	.6	7.6	90			130	19	29	0.00	0.00	7
9-1-68	22.2	6		8.5	97	1.3	7.7	97			130					9
9-2-68	22.2	6		8.6	98	1.3	7.7	97			130					75
9-3-68	22.2	6		10.6	120	1.1	7.7	95			130	39		0.013	0.013	11
9-4-68	22.2	10		8.6	98	1.1	7.7	96			130					11
9-5-68	22.2	4		7.9	90	1.2	7.7	95			130					64
9-6-68	22.2	30		7.3	83	1.0	7.7	98			130					210
9-7-68	22.2	30		8.8	100	1.4	7.7	98			130					75
9-8-68	22.2	6		6.8	77	1.3	7.7	95			130					9
9-9-68	21.6	6		6.7	75	1.1	7.7	100			130					7
9-10-68	21.6	4		8.1	90	1.1	7.7	100			130	14		0.02	0.09	15
9-11-68	21.6	4		7.7	87	1.1	7.6	100			130					75
9-12-68	20.0	8		8.0	87	1.9	7.6	100			130					75

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
9-13-68	20.0	8		7.5	81	1.0	7.6	99			130		38			27
9-14-68	21.6	8		7.8	88	1.4	7.7	98			130					75
9-15-68	21.6	8		7.5	84	1.2	7.7	105			130	29		0.06	0.09	240
9-16-68	21.6	8		7.0	79	1.0	7.7	104			130					7
9-17-68	21.1	3		8.0	90		7.7	98			130					7
9-18-68	21.1	4		7.8	88	1.0	7.2	99			130					210
9-19-68	20.0	11		7.8	85	1.0	7.7	100			130	18	36	0.008	0.03	2,400
9-20-68	20.0	8		5.0	54	1.0	7.7	101			130					23
9-21-68	20.0	4		8.7	95	1.1	7.7	100			130					23
9-22-68	21.6	4		9.2	103	1.4	7.6	100			130					9
9-23-68	21.6	4		10.2	114	0.9	7.7	101			124					11
9-24-68	22.2	6		11.0	125	1.0	7.7	102			124					35
9-25-68	22.2	6		10.5	120	1.0	7.6	100			130					9
9-26-68	21.1	20		9.8	109	0.9	7.6	100			130					93
9-27-68	20.0	6		10.2	110	1.1	7.6	101			128					120
9-28-68	20.0	8		9.7	105	1.2	7.7	101			128					9
9-29-68	20.0	6		11.0	120	1.8	7.7	105			128	24	37	0.012	0.02	3
9-30-68	20.0	40		10.9	118	1.1	7.7	100			128					311
Sept. Avg.	21.3	9		8.6	96	1.2	7.7	99			129	25	37	0.022	0.05	142
Max.	22.2	40		11.0	125	1.9	7.7	105			130	39	38	0.060	0.09	311
Min.	20.0	3		6.7	54	0.9	7.2	95			124	14	36	0.008	0.01	3
10-1-68	20.0	30		9.0	99	0.8	7.7	101			128					20
10-2-68	19.4	8		10.4	110	1.3	7.7	100			128					11
10-3-68	19.4	13		10.4	110	0.9	7.7	101			128					15
10-4-68	17.2	40		10.3	106	1.1	7.7	100			128					460
10-5-68	16.6	20		11.2	114	1.5	7.8	100			128	27	43	0.02	0.05	93
10-6-68	16.6	10		11.0	111	1.5	7.7	100			128					150

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-7-68	16.6	8		10.5	106	1.1	7.7	7.7	100	128	128					27
10-8-68	16.6	4		11.3	115	1.1	7.7	7.7	100	128	128					9
10-9-68	16.1	6		12.0	120	1.1	7.7	7.7	100	128	128					23
10-10-68	16.1	6		11.7	117	1.0	7.7	7.7	101	128	128					9
10-11-68	15.5	6		9.7	96	1.0	7.6	7.6	102	128	128					7
10-12-68	16.1	6		12.3	124	1.3	7.7	7.7	100	128	128					9
10-13-68	16.1	6		11.0	110	1.0	7.7	7.7	102	128	128	21	35	0.01	0.05	9
10-14-68	16.1	4		11.2	113	0.9	7.7	7.7	104	128	128					15
10-15-68	16.1	4		12.0	120	0.9	7.7	7.7	105	128	128					9
10-16-68	16.6	4		12.3	125	0.8	7.6	7.6	103	128	128					7
10-17-68	17.2	4		11.5	119	1.0	7.7	7.7	105	130	130					7
10-18-68	17.2	4		9.5	98	1.1	7.7	7.7	102	130	130	23	31	0.06	0.09	93
10-19-68	17.2	8		10.8	110	1.1	7.7	7.7	102	130	130					240
10-20-68	17.2	8		10.8	110	0.9	7.7	7.7	102	130	130					43
10-21-68	16.1	10		10.3	104	1.0	7.6	7.6	100	130	130					460
10-22-68	15.5	6	370	11.4	114	0.9	7.7	7.7	100	130	130					460
10-23-68	16.1	10	410	11.3	114	0.9	7.6	7.6	101	130	130					2,400
10-24-68	15.0	6	410	10.5	103	1.1	7.6	7.6	100	130	130					1,100
10-25-68	15.5	30	370	9.3	93	1.2	7.7	7.7	102	130	130					240
10-26-68	15.0	30	210	12.5	123	1.4	7.7	7.7	100	130	130					1,100
10-27-68	15.0	20	340	12.7	125	1.7	7.6	7.6	100	130	130					2,400
10-28-68	14.4	30	210	12.5	121	1.1	7.7	7.7	102	130	130					2,400
10-29-68	12.2	30	320	10.5	96	1.0	7.6	7.6	102	130	130	29	37	0.03	0.04	2,400
10-30-68	11.6	13	500	13.0	119	1.1	7.6	7.6	100	130	130					2,400
10-31-68	10.5	10	250	12.5	111	1.0	7.6	7.6	100	130	130					2,400
Oct. Avg.	16.0	13	339	11.1	111	1.1	7.7	7.7	101	129	129	25	36	0.03	0.06	613
Max.	20.0	40	500	13.0	125	1.7	7.8	7.8	105	130	130	29	43	0.06	0.09	2,400
Min.	10.5	4	210	9.0	93	0.8	7.6	7.6	100	128	128	21	31	0.01	0.04	7

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-1-68	11.6	20	290	11.5	105	1.1	7.6	100	130							1,100
11-2-68	12.7	20	290	12.7	119	1.1	7.6	100	130							1,100
11-3-68	12.7	30	420	11.3	106	1.2	7.6	100	130							1,100
11-4-68	12.2	6	380	12.0	111	1.0	7.6	98	130							460
11-5-68	12.2	4	380	11.3	115	0.8	7.6	99	130							1,100
11-6-68	11.6	8	480	13.7	125	0.9	7.7	99	130			29	32	0.02	0.03	1,100
11-7-68	11.6	10	390	13.5	123	1.0	7.7	100	130							460
11-8-68	11.1	20	320	11.5	104	1.0	7.7	102	130							240
11-9-68	11.1	30	300	11.0	100	0.9	7.6	98	130							1,100
11-10-68	11.1	8	320	10.8	107	1.3	7.7	100	130			21	30	0.02	0.04	240
11-11-68	11.1	4	310	11.1	101	1.1	7.6	101	130							460
11-12-68	9.4	40	350	12.7	110	0.9	7.6	102	130							1,100
11-13-68	8.3	15	260	15.8	134	0.9	7.6	102	130							1,100
11-14-68	8.3	15	240	15.4	131	0.9	7.6	103	130							460
11-15-68	8.8	20	270	15.3	132	0.9	7.6	98	130							210
11-16-68	8.3	30	320	12.9	109	1.0	7.6	95	130			34	23	0.03	0.07	2,400
11-17-68	8.3	10	290	12.5	106	1.1	7.7	99	130							1,100
11-18-68	8.3	10	360	15.3	130	0.6	7.7	98	130							2,400
11-19-68	8.3	40	320	11.0	94	0.8	7.6	98	130							460
11-20-68	8.3	35	320	12.2	104	1.0	7.6	95	128							2,400
11-21-68	6.1	30	300	16.0	129	0.9	7.6	98	128							1,100
11-22-68	6.1	40	300	16.0	129	1.0	7.6	98	128							2,400
11-23-68	6.1	40	290	12.2	98	1.1	7.6	100	128			26	36	0.08	0.02	2,400
11-24-68	6.1	50	320	14.0	112	1.2	7.6	100	128							2,400
11-25-68	6.6	40	310	12.5	102	1.1	7.6	98	128							1,100
11-26-68	6.6	30	290	15.1	123	1.0	7.6	97	128							2,400
11-27-68	6.6	40	360	15.5	126	1.0	7.6	98	128							460
11-28-68	6.6	35	250	15.7	128	1.4	7.6	98	128							2,400
11-29-68	6.6	40	280	12.7	103		7.6	98	128							2,400
11-30-68	6.6	40	340	12.9	104		7.6	98	128			30	32	0.03	0.04	1,100

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
Nov. Avg.	9.0	25	322	13.2	114	1.0	7.6	7.6	99		129	28	31	0.04	0.04	1,275
Max.	12.7	40	480	16.0	134	1.4	7.7	7.7	103		130	34	36	0.08	0.07	2,400
Min.	6.1	4	260	10.8	94	0.6	7.6	7.6	97		128	21	23	0.02	0.02	210
12-1-68	6.1	8	330	12.4	99	1.3	7.6	7.6	87		128					1,100
12-2-68	6.6	15	200	12.4	100	0.8	7.6	7.6	91		128					2,400
12-3-68	6.6	15	240				7.7	7.7	90		128					2,400
12-4-68	6.6	20	250	15.7	126	1.3	7.6	7.6	100		128					150
12-5-68	4.0	30	260	15.5	117		7.6	7.6	98		128					2,400
12-6-68	3.4	60	280	14.8	110	1.0			92		128	26	34	0.02	0.03	2,400
12-7-68	3.4	60	300	15.1	113		7.6	7.6	88		128					2,400
12-8-68	3.4	50	280	14.9	111		7.6	7.6	93		128					1,100
12-9-68	3.0	40	320	14.5	107	1.4	7.6	7.6	92		128					2,400
12-10-68	3.0	40	310	14.0	104	0.8	7.6	7.6	92		128					2,400
12-11-68	2.8	30	240	13.6	100	0.7	7.6	7.6	97		128					1,100
12-12-68	2.2	50	240	13.8	100	0.8	7.6	7.6	95		128					1,100
12-13-68	2.2	60	280	13.5	99	1.0	7.6	7.6	93		128					2,400
12-14-68	2.2	60		14.1	103	0.8	7.6	7.6	90		128	34	32	0.02	0.03	1,100
12-15-68	2.2	60	330			1.0	7.6	7.6	93		128					460
12-16-68	2.2	60	320	13.8	100	0.8	7.6	7.6	93		128					460
12-17-68	1.7	60	310	13.6	98	0.7	7.6	7.6	92		128					240
12-18-68	1.1	60	240	13.6	96	0.7	7.6	7.6	95		128					1,100
12-19-68	1.1	50	240	13.8	98	0.8	7.5	7.5	97		134					460
12-20-68	1.1	60	260	13.8	98	0.6	7.6	7.6	93		130	28	32	0.02	0.02	2,400
12-21-68	1.1	50	220	12.7	90	0.6	7.6	7.6	92		130					2,400
12-22-68	1.1	60	280	12.0	85	0.7	7.6	7.6	90		130					460
12-23-68	1.1	60	220	12.4	88	0.8	7.6	7.6	93		130					240
12-24-68	0.5	60	250	14.0	98	0.8	7.6	7.6	95		130					2,400
12-25-68	0.5	60	270	13.8	96	0.4	7.6	7.6	94		130					2,400

TABLE 4 (Concluded)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
12-26-68	0.5	60	270	13.8	96	1.0	7.6	95			130					2,400
12-27-68	0.5	40	240	13.1	91	0.7	7.6	92			130					1,100
12-28-68	0.5	50	250	14.4	100	0.5	7.6	90			130					2,400
12-29-68	0.5	50	270	14.2	99	0.8	7.6	95			130	22	31	0.05		2,400
12-30-68	0.5	50	220	12.7	89	0.5	7.6	85			130					2,400
12-31-68	0.5	60	260	14.0	98	0.7	7.6	95			130					2,400
Dec. Avg.	2.3	50	257	13.8	100	0.8	7.6	93			129	27	32	0.02	0.03	1,644
Max.	6.6	60	330	15.7	126	1.3	7.7	100			134	34	34	0.02	0.05	2,400
Min.	0.5	8	200	12.0	85	0.8	7.5	85			128	22	31	0.02	0.02	150

TABLE 5
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	\$ Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Toledo												
3-4-68	1.0	13.5	95	.08	.06	.47	.40	1.00	11.6	65	<5	2,000
3-18-68	2.0	16.6	120	.06	.03	.59	.05	.85	12.3	<2	<2	180
4-1-68	5.1	13.6	105	.07	.03	.75	.29	.55	12.6	210	2	940
4-15-68	12.5	10.3	96	.11	.04	.88	.42	2.25	17.1	200	6	450
4-29-68	11.2	11.3	102	.05	.03	.52	.11	.45	12.9	10	<1	200
5-14-68	14.8	9.9	97	.08	.05	1.26	.54	.64	21.9	<5	<5	280
5-27-68	15.0	8.9	88	.14	.07	.76	.06	.96	14.1	420	<10	620
6-11-68	17.3	6.8	70	.05	.05	.42	.09	.82	13.1	<10	<5	80
6-24-68	23.1	--	--	.09	.05	.81	.14	.90	16.9	700	<5	120
7-9-68	20.5	7.3	80	.08	.05	.50	.16	1.17	8.4	120	<10	Spreader
7-23-68	23.7	6.3	74	.11	.07	1.06	.24	.02	12.0	210	<10	2,400
8-6-68	23.9	6.2	73	.09	.04	.45	.11	.15	8.8	40	<10	1,500
8-19-68	24.0	8.3	98	.10	.05	.93	.20	.12	19.5	100	<2	270
9-4-68	21.0	7.6	85	.22	.15	.61	.09	.00	15.3	<1	<1	140
9-17-68	20.0	8.4	92	.06	.06	.55	.21	.05	11.8	6	<1	110
9-30-68	--	--	--	.09	.05	.86	.07	.00	--	<5	<2	950
10-14-68	15.1	9.4	93	.11	.06	.38	.32	.02	17.9	20	2	340
10-28-68	10.0	10.2	90	.10	.05	.14	.06	.10	11.3	10	<1	110
11-4-68	10.0	11.7	100	.07	.05	.19	.11	.05	11.7	15	<1	70
11-19-68	6.0	9.8	78	.07	.05	.45	.00	.27	50.0	<5	<2	200
12-2-68	4.8	12.5	97	.10	.05	.33	.92	.42	21.5	40	5	70
12-18-68	0.0	14.2	98	.08	.03	.25	.20	.26	12.5	<5	<5	70
Port Clinton												
3-4-68	2.5	14.6	106	.08	.06	.63	.22	1.20	12.3	35	<5	450
3-18-68	2.0	18.1	130	.08	.08	.85	.25	1.50	20.4	<2	<2	180

TABLE 5 (Continued)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Port Clinton (cont'd)												
4-2-68	8.2	12.3	104	.12	.10	.86	.29	1.50	17.2	260	3	970
4-15-68	11.5	10.5	95	.12	.09	.81	.20	.90	13.3	2,200	44	7,300
4-29-68	11.4	11.0	100	.05	.04	.34	.19	.21	10.9	300	22	240
5-14-68	14.8	9.2	90	.07	.04	.60	.25	.34	10.2	2,400	40	430
5-27-68	15.0	8.5	84	.05	.03	.50	.24	.44	9.6	2,100	200	10,000
6-11-68	18.1	2.5	26	.06	.04	.80	.16	.83	16.5	1,600	<30	1,200
6-24-68	21.9	--	--	.07	.05	.65	.20	.52	14.2	1,600	110	1,800
7-9-68	21.0	4.7	52	.11	.05	.37	.43	.49	11.4	3,000	480	1,100
7-23-68	23.9	5.4	64	.17	.02	.80	.30	.15	16.3	1,300	100	4,000
8-6-68	24.2	2.6	30	.09	.05	.72	.28	.04	11.8	1,100	1,300	1,800
8-19-68	25.0	4.6	55	.10	.04	.65	.11	.05	11.6	4,600	460	600
9-4-68	21.2	6.6	73	.07	.04	.68	.15	.00	14.1	38,000	2,600	1,600
9-17-68	19.5	7.1	77	.07	.04	.40	.06	.00	15.1	2,900	110	820
9-30-68	17.9	8.0	83	.13	.04	.73	.07	.00	--	2,100	610	2,500
10-14-68	15.9	8.1	80	.11	.05	.83	.37	.03	19.0	20,000	2,200	1,800
10-28-68	8.5	10.4	88	.10	.06	.51	.09	.04	15.9	3,700	230	500
11-4-68	10.0	11.1	98	.07	.05	.43	.17	.05	12.1	900	30	150
11-19-68	5.5	9.5	75	.12	.05	.60	.10	.05	18.7	290	50	300
12-3-68	4.5	12.5	96	.12	.05	.26	.19	.22	11.1	340	40	90
12-18-68	.5	14.2	99	.12	.04	.59	.86	1.70	12.5	1,700	660	
Sandusky												
3-4-68	0.0	13.8	94	.12	.06	.96	.30	1.25	14.3	25	<5	520
3-18-68	1.5	14.9	106	.03	.02	.46	.14	1.10	10.8	38	<2	200
4-2-68	4.9	13.8	107	.04	.04	.93	.32	.90	13.8	38	<2	400
4-15-68	8.8	11.9	102	.04	.02	.52	.13	.55	9.6	24	<1	140

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY

mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Sandusky (cont'd)												
4-29-68	13.5	12.0	115	.04	.03	.39	.06	.39	10.7	<3	<2	Spreader
5-14-68	13.6	10.1	97	.06	.05	.46	.30	.33	8.1	10	8	Spreader
5-27-68	15.2	8.1	80	.11	.05	.59	.16	.35	14.4	290	<10	250
6-12-68	16.0	3.6	36	.05	.02	1.04	.39	.64	15.4	<10	<5	16
6-25-68	19.3	2.8	30	.06	.04	.57	.18	.28	11.1	<10	<5	420
7-9-68	20.4	4.6	50	.08	.05	1.05	.58	.20	5.2	<10	<5	180
7-23-68	22.7	6.6	76	.08	.04	.58	.08	.10	12.0	30	<10	3,700
8-6-68	23.2	2.6	30	.08	.05	.65	.35	.07	10.0	10	<10	1,000
8-20-68	24.0	6.2	73	.07	.04	.60	.10	.09	9.1	98	<1	1,500
9-4-68	22.0	6.6	74	.08	.04	.65	.01	.01	11.6	<2	<2	1,400
9-17-68	20.2	5.5	60	.05	.03	.26	.04	.00	9.0	50	.5	220
10-1-68				.05	.03	.45	.08	.03		80	<1	770
10-14-68	16.2	7.0	70	.09	.03	.26	.29	.05	11.3	20	30	2,200
10-29-68	11.0	10.2	92	.08	.02	.43	.12	.03	11.6	160	6	190
11-5-68	11.0	10.8	98	.04	.03	.12	.13	.05	12.9	20	5	190
11-19-68	5.8	7.1	56	.10	.04	.57	.08	.13	18.7	300	<5	540
12-3-68	5.5	12.5	98	.11	.04	.23	.12	.10	8.2	30	<2	40
12-18-68	0.0	14.4	99	.10	.04	.38	.12	.34	13.3	20	<2	49
Huron												
3-4-68	0.5	13.9	96	.10	.07	.62	.30	1.30	13.2	270	95	500
3-18-68	1.0	14.0	98	.05	.05	.66	.19	1.30	14.8	100	10	300
4-2-68	6.8	13.0	105	.04	.02	.57	.15	.95	16.0	150	10	580
4-16-68	9.0	12.0	103	.03	.04	.67	.23	.50	12.3	390	11	80
4-30-68	10.0	--	--	.03	.02	.42	.08	.33	11.2	<10	8	Spreader
5-15-68	15.0	10.3	101	.05	.03	1.70	.50	.34	18.2	<5	<5	70
5-27-68	15.0	8.8	87	.08	.03	.36	.18	.36	10.8	1,100	220	230

TABLE 5 (Continued)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Huron (cont'd)												
6-12-68	16.4	5.4	55	.04	.03	1.14	.15	.38	15.6	140	<20	540
6-25-68	18.6	3.2	34	.06	.04	.61	.20	.35	11.9	<20	<5	1,100
7-9-68	21.3	7.5	84	.05	.03	.55	.55	.20	6.0	100	<10	1,200
7-23-68	22.9	6.4	74	.05	.03	.63	.40	.07	16.6	90	<10	660
8-6-68	23.5	1.4	4	.12	.08	.49	.34	.02	9.2	800	40	2,000
8-20-68	24.0	5.7	67	.07	.04	.55	.08	.04	8.1	100	<1	6,600
9-4-68	22.0	6.4	73	.07	.04	.49	.17	.03	8.3	90	<1	4,300
9-17-68	20.0	5.1	55	.05	.03	.38	.18	.05	11.8	150	<1	850
10-1-68	18.9	7.6	80	.06	.03	.48	.15	.03		200	80	440
10-14-68	16.5	7.6	77	.06	.03	.25	.10	.09	9.9	120	2	260
10-29-68	11.0	10.4	94	.08	.02	.27	.18	.07	14.4	1,000	210	500
11-5-68	11.0	10.3	93	.04	.04	.29	.16	.06	12.1	810	140	250
11-19-68	5.6	4.8	38	.08	.06	.37	.18	.16	18.7	2,600	290	650
12-3-68	5.5	12.5	98	.08	.04	.16	.09	.28	9.3	2,700	260	3,000
12-18-68	0.0	14.1	96	.09	.04	.46	.09	.61	14.5	1,100	810	220
Vermillion												
3-5-68	1.0	15.1	101	.04	.03	.67	.15	.90	10.5	390	40	300
3-18-68	1.0	14.4	102	.03	.02	.62	.28	1.30	12.5	9,300	800	8,700
4-2-68	6.8	12.9	105	.05	.04	.65	.43	1.05	12.2	3,900	480	530
4-16-68	9.2	12.3	106	.03	.03	.66	.22	.30	7.7	<2	<2	40
4-30-68	8.9	11.8	103	.03	.01	.40	.04	.37	8.8	140	26	Spreader
5-15-68	16.5	10.0	102	.05	.03	.69	.08	.38	13.3	750	150	155
5-27-68	15.0	8.6	85	.09	.04	.75	.40	.77	21.2	7,900	3,100	5,400
6-12-68	19.1	8.7	94	.04	.03	.42	.06	.08	11.3	1,900	120	28,000
6-25-68	20.0	7.0	77	.04	.03	.37	.05	.17	9.8	<100	<5	<100

TABLE 5 (Continued)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Vermillion (cont'd)												
7-9-68	21.1	5.2	58	.06	.03	.15	.85	.17	6.5	3,200	860	600
7-23-68	23.8	6.6	77	.07	.03	.39	.11	.11	12.0	140	80	720
8-6-68	24.8	7.3	87	.06	.03	.08	.52	.00	13.8	50	<10	1,250
8-20-68	25.0	6.6	78	.06	.04	.57	.09	.03	12.8	<1	<1	50
9-5-68	21.5	6.7	75	.05	.02	.60	.06	.94	12.0	160	<1	140
9-10-68	20.0	6.4	69	.04	.03	.28	.12	.00	8.2	620	220	590
10-1-68	18.0	8.2	86	.03	.01	.34	.06	.00		20	<2	370
10-15-68	16.0	9.1	91	.05	.02	.98	.12	.01	11.7	90	10	9,100
10-29-68	10.0	10.4	92	.10	.03	.25	.10	.01	17.5	180	10	1,600
11-5-68	11.0	9.9	89	.04	.03	.22	.18	.05	11.3	350	40	400
11-19-68	5.2	4.9	38	.12	.04	.31	.24	.09	17.5	1,900	230	1,300
12-3-68	5.0	12.3	95	.10	.04	.22	.13	.22	12.6	160	75	800
12-17-68	0.0	13.2	91	.11	.04	.52	.28	.34	20.4	380	35	230
Elyria												
3-5-68	1.0	14.9	105	.05	.04	.60	.41	.90	4.7	32	<2	150
3-18-68	.8	14.8	103	.09	.04	.75	.15	1.05	12.9	60	22	190
4-2-68	7.1	12.3	102	.10	.03	.62	.55	.90	15.0	1,900	83	380
4-16-68	9.2	11.8	102	.03	.03	.65	.12	.50	8.6	310	48	100
4-30-68	8.5	11.8	102	.03	.02	.34	.16	.38	10.7	2	<2	110
5-15-68	13.6	11.2	107	.03	.03	1.92	.53	.42	20.8	<2	<2	180
5-27-68	14.8	9.8	96	.03	.03	.63	.14	.35	10.2	230	<20	190
6-12-68	17.6	8.6	89	.03	.02	.63	.05	.43	15.9	500	180	1,200
6-25-68	19.1	8.6	92	.03	.02	.78	.14	.26	13.8	60	<5	240
7-9-68	20.9	8.2	91	.04	.03	.22	.64	.10	5.4	<10	10	490
7-23-68	23.9	8.5	100	.04	.03	.39	.11	.12	10.3	280	<10	1,300

TABLE 5 (Continued)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Elyria (cont'd)												
8-6-68	24.2	9.6	114	.04	.02	.44	.12	.00	11.2	120	<10	3,500
8-20-68	24.8	8.4	100	.05	.03	.48	.02	.00	10.4	3,900	<10	700
9-5-68	22.1	9.3	105	.07	.02	.31	.19	.00	9.9	100	<2	290
9-18-68	19.8	7.2	78	.04	.03	.35	.21	.00	13.5	20	<1	580
10-1-68	19.0	8.8	89	.04	.02	.56	.07	.00		50	<2	260
10-15-68	16.0	10.2	103	.03	.02	.40	.05	.00	9.1	10	2	40
10-29-68	11.0	10.5	94	.15	.01	.53	.07	.04	15.5	5,500	750	2,600
11-5-68	11.2	11.1	100	.04	.03	.00	.10	.02	9.0	70	<5	700
11-20-68	6.0	11.9	94	.12	.04	.49	.31	.12	19.1	1,000	120	2,100
12-3-68	5.6	12.5	98	.09	.04	.21	.14	.79	8.1	2,000	160	780
12-17-68	0.0	13.3	92	.10	.03	.32	.08	.35	18.0	20	15	85
Loraln												
3-5-68	2.1	15.0	107	.04	.03	.53	.29	.80	7.6	14	<2	20
3-18-68	4.2	14.7	112	.05	.04	.41	.15	1.10	10.8	2	<1	120
4-2-68	7.1	13.0	106	.04	.03	.53	.05	.90	9.4	84	4	210
4-16-68	12.0	11.3	104	.03	.02	.57	.10	.60	8.1	33	5	52
4-30-68	8.9	11.7	101	.04	.02	.36	.14	.38	9.2	8	<1	49
5-15-68	14.2	10.4	100	.04	.04	.28	.14	.40	7.4	<2	<2	Spreader
5-27-68	14.8	9.3	92	.05	.03	.57	.11	.33	5.8	<10	<5	43
6-12-68	19.3	8.6	94	.04	.02	.33	.02	.44	10.8	<10	<5	63
6-25-68	19.8	8.4	86	.03	.02	.34	.01	.19	6.5	<10	<5	33
7-9-68	20.0	7.3	80	.04	.04	.19	.34	.15	3.9	<10	<5	Spreader
7-23-68	24.3	7.3	87	.04	.03	--	--	.16	8.2	<10	<10	37
8-7-68	25.9	8.2	100	.03	.03	.27	.03	.03	6.2	<5	<5	18
8-20-68	25.9	7.6	93	.05	.03	.32	.04	.02	8.7	<1	<1	35

TABLE 5 (Continued)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Lorain (cont'd)												
9-5-68	22.3	8.8	100	.05	.03	.60	.06	.00	9.9	<1	<1	71
9-18-68	21.0	7.2	80	.03	.03	.28	.08	.00	8.6	<2	<1	1,100
10-1-68	19.8	8.2	88	.04	.04	.28	.03	.00	--	<1	<1	120
10-15-68	17.0	9.9	101	.04	.02	.31	.04	.01	9.5	2	<1	21
10-29-68	11.5	10.8	98	.18	.02	.29	.06	.04	14.4	180	15	450
11-5-68	12.2	10.3	95	.03	.03	.02	.13	.04	7.4	30	2	520
11-20-68	6.8	11.3	92	.16	.06	.38	.12	.13	23.0	1,100	230	360
12-3-68	7.1	11.8	97	.13	.05	.17	.18	.22	8.9	40	20	130
12-17-68	1.8	13.4	96	.13	.03	.26	.04	.28	12.9	10	5	70
Avon												
3-5-68	0.8	14.6	102	.04	.02	.52	.10	.95	8.7	26	12	100
3-18-68	1.0	14.7	103	.04	.04	.53	.19	.90	9.2	250	50	800
4-3-68	5.9	13.2	105	.05	.03	.65	.15	.80	9.8	130	2	Spreader
4-16-68	10.1	11.6	103	.03	.02	.57	.17	.65	9.2	68	3	Spreader
4-30-68	9.3	11.6	101	.03	.03	.45	.13	.50	11.4	28	<1	55
5-15-68	12.0	11.4	105	.04	.02	.45	.03	.38	8.1	10	<2	Spreader
5-27-68	12.2	10.2	95	.08	.04	.50	.05	.20	1.2	1,300	740	1,000
6-12-68	18.0	8.7	91	.04	.03	.51	.06	.47	13.8	8,000	1,200	2,000
6-25-68	19.6	7.9	85	.04	.02	.41	.08	.26	8.3	85	60	3,200
7-9-68	20.0	7.2	79	.05	.03	.00	.43	.12	2.6	840	110	640
7-23-68	22.0	3.7	43	.07	.06	1.13	.10	.15	16.8	200	90	3,600
8-7-68	24.0	8.2	97	.04	.01	.16	.30	.00	9.6	170	20	3,000
8-20-68	24.5	8.1	96	.06	.03	.42	.11	.07	10.4	100	10	120
9-5-68	21.4	9.2	104	.05	.04	.42	.04	.07	10.4	780	<2	5,500
9-18-68	19.8	6.2	67	.04	.03	.22	.08	.00	6.9	<10	<5	2,300

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Avon (cont'd)												
10-2-68	20.0	8.5	93	.05	.02	.37	.03	.00	--	20	<1	10,000
10-15-68	16.1	8.2	83	.03	.01	.27	.08	.03	11.7	80	10	950
10-29-68	11.0	10.4	93	.12	.03	.37	.13	.04	12.8	480	36	2,000
11-5-68	12.0	10.6	98	.04	.02	.12	.13	.02	10.5	60	36	440
11-20-68	6.0	11.9	95	.12	.04	.46	.19	.08	18.3	2,000	240	990
12-4-68	6.5	12.0	97	.11	.04	.18	.32	.15	13.0	1,600	210	900
12-17-68	1.0	12.4	86	.12	.04	.66	.19	.30	21.2	380	90	360
Cleveland-Crown												
3-5-68	1.0	15.5	108	.04	.03	.63	.20	1.00	11.0	2	<1	70
3-18-68	1.0	15.6	109	.06	.01	.66	.19	.70	16.6	<1	<1	260
4-3-68	4.1	13.7	104	.03	.03	.82	.23	.75	13.4	83	3	Spreader
4-16-68	7.8	12.6	105	.05	.03	.42	.13	.60	7.9	2	<1	20
4-30-68	8.0	12.4	105	.03	.02	.41	.22	.28	11.0	260	18	180
5-15-68	12.0	11.6	107	.03	.03	.27	.30	.25	7.0	<10	<2	80
5-27-68	11.8	10.2	94	.05	.02	.34	.09	.17	5.0	2,600	190	2,100
6-12-68	15.0	6.4	63	.05	.04	.40	.10	.35	12.1	<10	<10	300
6-26-68	17.0	7.9	81	.19	.03	.94	.08	.23	25.5	<10	<10	1,900
7-9-68	--	--	--	.06	.04	.26	.40	.13	3.0	70	<5	1,600
7-24-68	16.0	0.5	5	.06	.05	.37	.39	.13	9.5	20	<10	350
8-8-68	21.6	1.5	5	.10	.06	.21	.45	.10	8.8	2,225	550	>6,000
8-22-68	20.6	1.0	11	.06	.03	.40	.36	.00	8.5	140	10	290
9-5-68	17.4	0.6	5	.11	.04	.33	.17	.00	7.0	<1	<1	120
9-18-68	19.8	5.3	57	.04	.03	.38	.12	.02	9.8	40	2	2,200
10-2-68	20.0	8.5	93	.05	.02	.50	.10	.00	12.4	<5	<1	330
10-15-68	17.0	9.2	93	.03	.03	.24	.16	.02	17.1	10	2	90
10-29-68	12.0	9.6	88	.23	.03	.46	.13	.04		210	5	500

TABLE 5 (Continued)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/;

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
<u>Cleveland-Crown (cont'd)</u>												
11-5-68	12.0	10.4	96	.04	.03	.14	.06	.02	9.4	40	<1	100
11-20-68	7.0	11.5	93	.16	.07	1.63	.32	.10	43.7	500	30	4,200
12-4-68	7.0	12.5	102	.16	.06	.83	.27	.18	14.4	10	<2	200
12-17-68	1.8	12.1	86	.17	.05	.37	.13	.12	16.1	<5	<5	100
<u>Cleveland-Division</u>												
3-6-68	0.7	13.5	94	.02	.02	.53	.28	.65	16.1	2	2	20
3-18-68	1.0	15.2	107	.02	.02	.60	.10	.70	11.0	180	38	320
4-3-68	3.0	13.9	103	.03	.03	.48	.05	.65	8.2	<5	<5	40
4-16-68	5.0	13.6	106	.03	.02	.53	.12	.40	7.3	5	<1	35
4-20-68	6.5	12.3	100	.03	.01	.57	.07	.20	9.6	23	10	440
5-15-68	11.0	11.6	105	.04	.02	.35	.05	.32	7.0	20	<2	50
5-29-68	10.6	10.4	93	.03	.02	.47	.07	.15	4.6	4,100	440	Spreader
6-12-68	16.0	8.4	85	.04	.01	.54	.11	.40	13.8	<10	<10	
6-26-68	15.2	5.2	52	.08	.03	.69	.19	.29	14.6	<10	<10	600
7-9-68	20.5	8.5	94	.03	.02	.98	.32	.26	6.5	760	<5	300
7-24-68	21.0	6.3	70	.02	.02	.49	.14	.17	9.5	550	<10	43
8-9-68	24.3	8.2	97	.02	.02	.32	.04	.07	8.4	<10	<5	87
8-21-68	22.9	8.2	95	.03	.02	.44	.02	.00	7.9	<2	<1	1,100
9-5-68	21.4	7.8	87	.02	.02	.31	.05	.00	8.7	<1	<1	170
9-18-68	20.0	8.4	92	.03	.02	.18	.15	.00	9.8	<1	<1	34
10-1-68	19.5	8.6	93	.04	.02	.30	.03	.00	--	15	5	720
10-15-68	16.5	10.2	103	.05	.02	.54	.21	.03	11.0	5,500	1,300	3,460
10-30-68	11.5	9.7	88	.07	.03	.26	.14	.34	10.5	40	<2	200
11-5-68	12.0	9.8	90	.04	.03	.01	.04	.02	8.6	420	46	234
11-19-68	8.0	11.1	93	.07	.03	.20	.10	.07	13.9	40	10	55
12-3-68	6.8	12.1	98	.08	.04	.27	.08	.17	7.0	85	45	250
12-18-68	2.5	13.3	97	.05	.03	.45	.10	.17	13.3	80	<5	140

TABLE 5 (Continued)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	OOD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Cleveland-Baldwin												
3-6-68	1.0	14.0	98	.03	.03	.47	.34	.55	8.7	48	4	280
3-18-68	1.0	13.4	94	.03	.02	.53	.05	.70	11.0	120	27	130
4-3-68	3.0	14.2	105	.03	.03	.73	.17	.70	12.2	<3	<1	39
4-16-68	4.8	14.2	109	.03	.02	.30	.08	.35	5.8	12	<1	14
4-30-68	7.5	12.4	104	.04	.03	.38	.12	.22	8.8	28	6	660
5-15-68	10.6	11.8	105	.03	.02	.44	.02	.36	7.0	100	6	12
5-29-68	10.5	10.2	91	.06	.03	.43	.11	.23	4.6	2,800	1,300	1,500
6-12-68	18.5	9.5	100	.04	.02	.74	.18	.59	15.7	<10	<20	40
6-25-68	18.5	6.9	73	.02	.01	.36	.03	.17	9.0	<5	<5	250
7-9-68	20.8	8.8	98	.04	.03	--	--	.17	4.7	630	<5	40
7-23-68	22.5	8.1	93	.03	.03	.23	.37	.15	11.6	<10	<10	75
8-9-68	24.4	8.2	98	.03	.02	.52	.21	.07	9.4	<10	<5	290
8-21-68	23.2	8.2	95	.03	.01	.42	.02	.00	7.0	1,300	<5	350
9-5-68	21.4	8.7	98	.01	.01	.28	.02	.00	7.0	<1	<1	100
9-17-68	20.0	9.4	102	.03	.02	.23	.03	.00	7.8	10	<1	16
10-1-68	20.0	8.9	97	.03	.02	.43	.07	.08	170	170	<1	32
10-15-68	16.5	10.2	103	.04	.03	.16	.09	.03	19.7	2,500	350	8,600
10-30-68	12.0	9.9	91	.07	.02	.22	.18	.11	9.7	30	<2	80
11-5-68	12.0	9.9	91	.03	.03	.09	.06	.02	8.6	580	50	248
11-18-68	7.5	11.1	93	.07	.04	.14	.16	.09	16.3	<10	<2	230
12-3-68	7.5	12.1	100	.08	.04	.03	.07	.12	6.7	20	<2	62
12-18-68	2.5	13.4	98	.10	.02	.22	.03	.14	10.2	30	<2	
Cleveland-Nottingham												
3-6-68	1.0	13.8	97	.02	.02	.51	.22	.40	7.4	<2	<1	70
3-18-68	1.0	13.5	95	.04	.03	.37	.28	.40	8.3	<2	<2	6

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Cleveland-Nottingham (cont'd)												
4-2-68	3.0	14.0	103	.03	.02	.53	.07	.65	8.0	18	3	90 Spreader
4-16-68	6.0	13.3	106	.04	.03	.38	.22	.80	8.1	2	<1	15
4-30-68	6.0	11.6	88	.03	.01	.42	.08	.31	10.5	<2	<1	7
5-15-68	9.7	11.9	105	.04	.02	.55	.03	.32	6.7	<2	<2	Spreader
5-29-68	10.2	10.6	95	.03	.02	.47	.03	.13	3.3	<5	<5	16
6-11-68	14.3	8.2	80	.02	.02	.33	.07	.29	11.5	<5	<5	7
6-25-68	17.0	6.4	65	.03	.03	.36	.06	.37	10.0	<10	<5	5
7-9-68	19.0	7.6	81	.03	.02	.23	.07	.20	2.6	<10	<5	5
7-23-68	23.5	7.9	93	.03	.02	.40	.16	.24	11.2	<10	<10	5
8-7-68	22.7	7.1	81	.03	.02	.25	.21	.09	7.2	30	10	Spreader
8-21-68	22.5	7.8	90	.03	.02	.33	.10	.00	7.5	200	<1	28
9-5-68	21.0	7.0	78	.05	.02	.28	.02	.00	5.8	<1	<1	6
9-17-68	19.8	8.3	90	.03	.01	.25	.05	.04	6.9	2	<1	20
10-1-68	20.0	8.7	95	.04	.02	.48	.05	.02	--	<1	<1	74
10-15-68	17.0	9.8	100	.05	.02	.16	.09	.03	8.0	55	<2	51
10-29-68	12.0	9.7	88	.10	.02	.51	.09	.05	10.5	10	<1	190
11-5-68	12.0	9.9	91	.04	.04	.01	.14	.05	8.6	<1	<1	6
11-19-68	8.0	11.2	94	.12	.04			.17	35.3	<5	<2	40
12-3-68	9.0	11.9	102	.11	.04	.11	.04	.15	17.4	<2	<2	4
12-18-68	2.5	13.2	97	.11	.04	.40	.15	.15	14.9	15	<2	--
Eastlake												
4-17-68	5.1	12.0	93	.05	.02	.35	.25	.70	7.3	350	13	220
4-29-68	7.9	--	--	.05	.02	.41	.14	.32	9.6	120	8	280
5-16-68	13.0	--	--	.07	.04	.45	.26	.48	9.5	820	150	960
5-27-68	11.1	--	--	.04	.02	.93	.27	.17	11.0	600	<10	360

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃	NO ₃	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Eastlake (cont'd)												
6-10-68	20.1	--	--	.09	.08	.58	.23	.34	16.1	180	30	950
6-24-68	19.4	8.2	88	.07	.03	.35	.10	.30	9.0	--	--	--
7-8-68	20.3	9.8	108	.03	.03	.58	.65	.22	13.3	60	<2	480
7-22-68	23.9	8.1	97	.03	.02	.39	.07	.15	9.9	240	30	5,000
8-7-68	25.0	9.3	112	.07	.04	.45	.21	.07	10.0	250	80	Spreader
8-20-68	24.4	8.2	98	.04	.03	.42	.18	.03	14.1	1,900	110	990
9-4-68	22.4	9.4	107	.09	.05	.45	.05	.00	11.6	2,300	130	930
9-16-68	21.1	8.1	90	.09	.05	.36	.14	.04	11.4	1,000	140	1,100
10-1-68	19.2	8.5	91	.24	.09	.49	.21	.43	--	4,400	2,300	8,300
10-16-68	17.2	10.3	105	.12	.08	.37	.13	.07	9.7	4,900	170	4,200
10-28-68	11.0	10.5	95	.15	.05	.33	.92	.41	22.1	17,000	5,300	23,000
11-6-68	12.0	9.9	91	.07	.06	.05	.25	.09	11.7	910	180	1,200
11-18-68	8.8	11.2	96	.15	.14	--	--	--	19.5	19,000	2,300	12,000
12-2-68	6.4	12.0	97	.16	.05	.38	.32	.61	24.1	16,000	700	6,200
12-18-68	0.9	13.6	96	.16	.04	.31	.39	.25	16.5	8,500	3,000	2,000
Mentor												
3-6-68	1.0	14.2	100	.02	.02	.37	.15	.45	6.7	2	<1	10
3-18-68	1.0	13.8	97	.03	.02	.51	.13	.35	7.1	490	130	Spreader
4-2-68	1.5	14.2	101	.07	.02	.60	.29	.45	8.6	46	10	Spreader
4-16-68	9.3	11.3	98	.05	.03	.53	.82	.95	11.5	2,400	340	1,000
4-30-68	8.0	11.4	96	.04	.01	.42	.08	.37	11.8	500	10	160
5-14-68	11.0	11.6	105	.06	.03	.49	.03	.31	6.3	140	6	510
5-29-68	10.0	11.0	98	.10	.02	.75	.08	1.41	11.6	1,100	<25	120
6-11-68	15.0	7.6	75	.03	.02	.40	.12	.34	13.4	400	<10	100
6-25-68	19.0	7.7	81	.05	.00	.39	.11	.29	10.2	190	55	1,300
7-9-68	21.0	9.2	101	.05	.02	.40	.06	.19	3.2	<10	<5	25

TABLE 5 (Continued)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SFC org/100 ml
Mentor (cont'd)												
7-23-68	24.0	8.4	100	.05	.02	.50	.50	.22	17.6	54	10	420
8-9-68	25.1	8.3	100	.04	.02	.37	.13	.09	10.2	10	<10	150
8-20-68	24.2	7.6	90	.05	.03	.42	.04	.02	7.5	500	15	800
9-3-68	21.4	9.6	108	.04	.02	.87	.17	.05	12.0	190	5	22
9-17-68	20.5	7.2	78	.03	.03	.35	.08	.07	9.4	200	10	240
10-1-68	19.0	8.8	94	.12	.05	.49	.24	.16		>3,000	1,800	3,300
10-15-68	16.0	10.5	105	.06	.04	.27	.08	.10	10.6	500	<5	600
10-29-68	11.0	10.1	91	.23	.04	.20	.75	.21	17.5	22,000	3,300	7,600
11-5-68	12.0	10.0	92	.08	.07	.18	.17	.07	9.4	47,000	2,500	3,500
11-19-68	7.0	11.1	90	.09	.05	.53	.27	.17	17.5	35,000	2,600	13,000
12-3-68	7.2	11.8	97	.08	.04	.19	.26	.31	11.1	2,300	290	100
12-18-68	1.5	13.8	98	.08	.04	.24	.11	.20	16.5	3,800	950	460
Palmsville												
3-6-68	1.0	14.6	103	.03	.02	.42	.20	.45	6.3	<5	<2	60
3-18-68	1.0	14.2	100	.08	.02	.67	.23	.40	8.3	<1	<1	Spreader
4-2-68	1.5	15.0	107	.06	.03	.64	.23	.45	15.4	60	<1	59
4-16-68	10.1	11.3	100	.09	.04	.60	.55	.90	16.5	2,800	110	170
4-30-68	9.5	11.0	97	.06	.03	.72	.33	.45	16.6	900	17	61
5-14-68	11.7	11.5	105	.05	.01	.28	.20	.29	7.7	100	12	Spreader
5-29-68	12.5	10.3	96	.15	.05	.80	.10	.40	13.9	150	<5	110
6-11-68	15.3	7.8	78	.05	.04	.94	.16	.66	15.4	50	<5	160
6-25-68	21.0	10.9	120	.04	.03	.40	.02	.23	10.0	110	20	310
7-9-68	22.0	9.0	102	.10	.04	.82	.64	.35	14.6	1,200	60	1,000
7-23-68	23.0	7.8	90	.04	.03	.76	.34	.20	13.8	600	<10	6,000
8-9-68	25.0	8.2	99	.04	.03	.47	.06	.05	8.8	Spreader	100	870

TABLE 5 (Continued)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Painesville (cont'd)												
8-20-68	24.0	7.5	89	.07	.03	.57	.16	.00	12.4	3,100	710	3,300
9-3-68	21.7	8.9	100	.13	.05	.82	.04	.04	12.8	6,700	180	1,000
9-17-68	20.5	8.8	97	.04	.04	.27	.03	.00	9.0	100	20	660
10-1-68	19.0	8.8	94	.09	.03	.47	.13	.15	--	750	140	930
10-15-68	16.0	10.8	108	.09	.02	.20	.10	.28	11.0	2,000	40	1,300
10-29-68	10.0	10.8	95	.18	.04	.23	.37	.22	20.2	42,000	5,700	12,000
11-5-68	12.0	10.0	93	.06	.04	.14	.11	.07	9.0	2,100	160	2,100
11-19-68	7.0	11.6	94	.13	.05	.79	.31	.30	21.4	130,000	7,500	6,600
12-3-68	6.8	12.1	98	.12	.04	.25	.20	.36	10.7	2,300	300	1,700
12-18-68	2.0	14.2	102	.13	.04	.41	.09	.25	14.9	4,900	1,100	1,000
Madison												
3-7-68	0.7	14.2	98	.03	.02	.41	.12	.50	6.3	4	<1	110
3-18-68	1.0	14.2	100	.03	.02	.66	.18	.40	10.0	<5	<5	11
4-2-68	4.0	13.9	105	.31	.01	.57	.16	.30	17.0	9	<1	32
4-16-68	9.5	11.2	97	.06	.02	.43	.50	.95	9.4	48	<1	67
4-30-68	7.8	11.2	95	.04	.02	.47	.08	.34	10.7	310	8	100
5-14-68	9.3	11.3	99	.04	.02	.57	.12	.34	10.6	30	2	Spreader
5-29-68	12.8	10.9	102	.07	.02	.51	.06	.99	7.1	<35	<5	46
6-11-68	14.0	8.4	81	.04	.02	.41	.07	.19	10.8	<15	<5	75
6-25-68	19.0	7.6	80	.04	.02	.65	.12	.33	13.2	<20	<10	2,300
7-9-68	20.8	7.3	80	.04	.03	.58	.15	.35	5.6	<10	<10	500
7-23-68	23.0	8.2	95	.08	.04	.36	.14	.11	12.9	<10	<10	350
8-9-68	24.5	7.7	92	.04	.01	.55	.25	.10	9.2	120	<5	Spreader
8-20-68	23.2	7.3	85	.08	.04	.37	.06	.00	8.7	<1	<1	990
9-3-68	22.0	8.7	99	.06	.03	2.16	.10	.00	9.9	15	<1	140
9-17-68	20.5	8.7	96	.06	.03	.18	.08	.00	8.6	4	<1	350

TABLE 5 (Continued)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
<u>Madison (cont'd)</u>												
10-1-68	18.8	8.6	92	.10	.04	.67	.09	.32		90	5	1,700
10-15-68	16.0	9.6	96	.05	.01	.20	.20	.05	9.5	40	<2	200
10-29-68	10.5	10.2	90	.15	.07	.49	.16	.12	15.9	6,600	900	3,500
11-5-68	12.5	9.9	92	.04	.04	.04	.06	.06	9.0	420	15	870
11-19-68	7.5	11.2	93	.08	.04	.73	.17	.21	20.3	6,200	620	3,100
12-3-68	6.0	12.2	97	.10	.04	.39	.21	.47	15.9	200	35	770
12-18-68	1.5	13.4	95	.10	.04	.37	.13	.19	16.1	7,000	720	9,300
<u>Ashtabula</u>												
3-7-68	1.0	13.0	91	.01	.01	.26	.29	.35	5.4	2	<1	<1
3-18-68	1.0	13.2	93	.02	.02	.46	.08	.30	6.7	8	<1	38
4-2-68	1.0	14.5	102	.03	.03	.38	.00	.15	4.6	52	15	31
4-16-68	9.0	11.8	102	.05	.02	.36	.23	.80	7.3	<1	<1	28
4-30-68	8.5	11.0	95	.05	.04	.47	.08	.39	10.7	30	<2	36
5-14-68	9.3	11.3	98	.02	.01	.39	.11	.33	6.0	5	4	11
5-29-68	10.0	10.8	95	.05	.02	.41	.05	.25	3.3	60	<5	55
6-11-68	12.5	9.3	87	.02	.02	.38	.02	.08	10.8	<10	<10	31
6-25-68	18.5	7.8	82	.07	.04	.35	.12	.24	9.2	<5	<5	83
7-9-68	20.0	7.6	83	.04	.04	.57	.23	.23	3.9	410	<5	700
7-23-68	23.0	8.2	95	.03	.02	.24	.09	.04	8.6	<10	<10	370
8-9-68	23.5	8.9	104	.04	.02	.50	.06	.00	6.4	<10	<10	40
8-19-68	22.9	7.3	85	.05	.02	.16	.07	.00	5.4	100	5	40
9-3-68	21.0	10.0	111	.04	.01	1.78	.05	.00	10.8	80	10	200
9-17-68	20.2	8.7	95	.04	.01	.22	.04	.00	7.8	25	12	93
10-1-68	19.0	8.8	94	.10	.03	.55	.05	.02	--	400	54	690
10-15-68	16.0	10.1	101	.04	.02	.09	.21	.04	9.9	60	8	190
10-29-68	11.0	10.1	91	.16	.05	.86	.24	.14	34.1	7,000	730	2,600

TABLE 5 (Concluded)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. Org/100 ml	35°C SPC org/100 ml
Ashtabula (cont'd)												
11-5-68	12.0	9.9	91	.07	.03	.01	.04	.06	8.6	890	100	
11-19-68	8.0	11.2	94	.10	.04	.49	.06	.10	23.4	1,500	85	530
12-3-68	6.0	12.2	97	.08	.04	.28	.07	.21	9.6	330	24	220
12-18-68	0.0	14.0	96	.09	.03	.54	.11	.24	15.7	2,900	190	1,700
Conneaut												
3-7-68	0.7	14.0	97	.02	.02	.27	.20	.50	5.8	<1	<1	<1
3-18-68	1.0	10.8	76	.02	.02	.46	.08	.45	5.0	<1	<1	Spreader
4-2-68	3.0	14.3	105	.02	.02	.43	.07	.15	6.2	2	<1	Spreader
4-15-68	6.5	12.8	103	.05	.02	.33	.20	.60	8.5	6	<1	Spreader
4-29-68	9.0	10.9	95	.04	.04	.39	.11	.47	11.0	3	3	90
5-14-68	10.0	11.2	101	.04	.03	.36	.02	.38	7.4	22	6	Spreader
5-27-68	12.5	11.2	105	.04	.02	.54	.04	.22	6.7	45	<5	39
6-10-68	15.0	9.9	98	.03	.03	.41	.05	.13	11.9	240	<10	240
6-24-68	23.0	8.0	93	.04	.04	.30	.10	.16	7.3	90	<5	120
7-8-68	20.5	8.5	95	.04	.03	.56	.10	.23	2.6	260	<5	2,200
7-22-68	23.0	7.2	83	.03	.02	.49	.27	.10	9.0	120	<10	63
8-9-68	24.2	--	--	.02	.02	.36	.04	.00	8.8	<10	<5	39
8-19-68	23.0	7.6	88	.04	.02	.32	.04	.00	6.2	<1	<1	15
9-3-68	21.1	8.6	97	.02	.01	.58	.02	.00	9.1	<1	<1	36
9-16-68	20.5	8.6	95	.03	.02	.19	.03	.00	6.9	2	<1	36
9-30-68	19.0	9.0	96	.14	.02	.46	.04	.00	--	--	--	--
10-14-68	16.0	10.3	103	.03	.01	.30	.15	.04	12.8	10	2	56
10-28-68	12.0	9.8	90	.08	.03	.26	.09	.06	6.6	1,400	200	450
11-4-68	12.0	10.4	95	.06	.03	.04	.06	.06	8.2	51	25	80
11-18-68	8.0	11.4	95	.05	.02	.33	.07	.08	11.5	20	10	58
12-3-68	6.0	12.3	98	.09	.02	.24	.16	.22	8.1	30	10	350
12-17-68	2.0	13.6	99	.07	.03	.41	.09	.19	9.8	2,400	50	2,200

TABLE 6
HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	NI	Cd	As	Pb	F
<u>Toledo</u>										
E3-1										
3-4-68	0.03		0.00		0.00		0.00	0.00		
4-29-68	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6-24-68	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.13
9-4-68	0.00	0.07	0.01	0.15	0.00	0.04	0.00	0.00	0.00	0.20
10-14-68	0.00	0.20	0.00	0.88	0.01	0.03	0.00	0.00	0.01	0.10
12-2-68	0.00	0.37	0.00	0.61	0.00	0.06	0.01	0.00	0.09	0.00
<u>Port Clinton</u>										
C7-4										
3-4-68	0.00		0.00		0.00		0.00	0.00		
4-29-68	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6-24-68	0.00	0.03	0.01	0.00	0.02	0.03	0.00	0.00	0.00	0.12
9-4-68	0.00	0.01	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.20
10-14-68	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.10
12-3-68	0.00		0.00		0.01	0.20	0.01	0.00	0.18	0.20
<u>Sandusky</u>										
B11-1										
3-4-68	0.00		0.00		0.00		0.00	0.00		
4-29-68	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6-25-68	0.00	0.02	0.01	0.01	0.04	0.03	0.01	0.00	0.00	0.12
9-4-68	0.00	0.07	0.01	0.02	0.00	0.02	0.00	0.00	0.00	0.20
10-14-68	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.10
12-3-68	0.00	0.02	0.00	0.02	0.01	0.04	0.01	0.00	0.00	0.10
<u>Huron</u>										
A12-4										
3-4-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6-25-68	0.00	0.00	0.00	0.01	0.01	0.02	0.00	0.00	0.00	0.11

TABLE 6 (Continued)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
<u>Hufon (cont'd)</u>										
9-4-68	0.00	0.09	0.01	0.13	0.00	0.01	0.00	0.00	0.00	0.20
10-14-68	0.00	0.92	0.00	2.47	0.00	0.04	0.00	0.00	0.03	0.10
12-3-68	0.00	0.02	0.00	0.01	0.01	0.03	0.01	0.00	0.00	0.20
<u>Vermilion</u>										
3-5-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
9-4-68	0.00	0.01	0.01	0.02	0.00	0.02	0.00	0.00	0.00	0.10
10-15-68	0.00	0.01	0.00	0.16	0.01	0.00	0.00	0.00	0.00	0.10
12-3-68	0.00	0.03	0.00	0.01	0.01	0.06	0.01	0.00	0.00	0.10
<u>Elyria</u>										
3-5-68	0.00		0.00		0.00		0.00	0.00	0.00	
4-30-68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
6-25-68	0.00	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.10
9-5-68	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.02	0.10
10-15-68	0.00	0.54	0.00	1.16	0.02	0.10	0.00	0.00	0.04	0.10
12-3-68	0.00	0.05	0.00	0.01	0.00	0.06	0.00	0.00	0.00	
<u>Loraln</u>										
3-5-68	0.00		0.00		0.00		0.00	0.00	NS	
4-30-68	0.00	NS	NS	NS	NS	NS	NS	NS	NS	0.11
6-25-68	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.10
9-5-68	0.00	0.08	0.00	0.19	0.00	0.01	0.00	0.00	0.01	0.10
10-15-68	0.00	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.10
12-13-68	0.00	0.03	0.00	0.03	0.01	0.02	0.00	0.00	0.05	0.10

TABLE 6 (Continued)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	NI	Cd	As	Pb	F
Cl8-1										
Avon Lake										
3-5-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.04	0.00		0.06	0.00	0.00	0.00	0.00	
6-25-68	0.00	0.05	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.11
9-5-68	0.00	0.13	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.10
10-15-68	0.00	0.36	0.00	0.36	0.01	0.00	0.00	0.00	0.02	0.20
12-4-68	0.00	0.04	0.00	0.02	0.01	0.05	0.00	0.00	0.00	0.10
C20-1										
Cleveland Crown										
3-5-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.02	0.00	0.00	0.00		0.00	0.00		
6-26-68	0.00	0.09	0.01	0.01	0.01	0.04	0.00	0.00	0.40	0.13
9-5-68	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.10
10-15-68	0.00	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.10
12-4-68	0.00	0.01	0.00	0.01	0.01	0.05	0.00	0.00	0.06	0.10
C21-3										
Cleveland Division										
3-6-68	0.01		0.00		0.00		0.00	0.00	0.00	
4-30-68	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.11	
6-26-68	0.00	0.07	0.01	0.01	0.00	0.02	0.00	0.00	0.10	0.12
9-5-68	0.00	0.00	0.01	0.02	0.00	0.02	0.00	0.00	0.00	0.10
10-15-68	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.10
12-3-68	0.00	0.02	0.00	0.00	0.01	0.05	0.00	0.00	0.06	0.10
C21-4										
Cleveland Baldwin										
3-6-68	0.02		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.04	0.00	0.00	0.00	0.04	0.00	0.00	0.00	
6-25-68	0.00	0.02	0.01	0.10	0.00	0.05	0.00	0.00	0.10	0.12

TABLE 6 (Continued)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	NI	Cd	As	Pb	F
<u>Cleve. Baldwin (cont'd)</u>										
9-5-68	0.00	0.01	0.01	0.02	0.00	0.04	0.00	0.00	0.00	0.20
10-15-68	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.10
12-3-68	0.00	0.02	0.00	0.01	0.01	0.07	0.00	0.00	0.00	0.10
<u>Cleve. Nottingham</u>										
D23-1	0.00		0.00		0.00		0.00	0.00		
3-6-68	0.00	0.06	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.13
4-30-68	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.10
6-25-68	0.00	0.06	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.10
9-5-68	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.10
10-15-68	0.00	0.02	0.00	0.01	0.01	0.04	0.00	0.00		
12-3-68	0.00	0.02	0.00							
<u>Mentor O.W.S.</u>										
E26-1	0.00		0.00		0.00		0.00	0.00	0.00	
3-6-68	0.00	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.10	0.13
4-30-68	0.00	0.03	0.01	0.00	0.01	0.02	0.00	0.00	0.01	0.20
6-25-68	0.00	0.03	0.01	0.13	0.01	0.00	0.00	0.00	0.01	0.10
9-17-68	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.05	0.10
10-15-68	0.00	0.03	0.00	0.00	0.00	0.04	0.00	0.00		
12-3-68	0.00									
<u>Painesville</u>										
F27-18	0.00		0.00		0.00		0.00	0.00	0.00	
3-6-68	0.00	0.04	0.00		0.00	0.08	0.00	0.00	0.10	0.12
4-30-68	0.00	0.05	0.00	0.01	0.00	0.02	0.00	0.00	0.01	0.20
6-25-68	0.00	0.05	0.00	0.15	0.01	0.01	0.00	0.00	0.00	0.10
9-17-68	0.00	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.10
10-15-68	0.00	0.02	0.00	0.01	0.01	0.07	0.00	0.00		
12-3-68	0.00									

TABLE 6 (Concluded)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
<u>Madison O.W.S.</u>										
G30-1										
3-7-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.06	0.00	0.00	0.00	0.36	0.00	0.00	0.00	
6-25-68	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.10	0.12
9-17-68	0.00	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.01	0.10
10-15-68	0.00	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.10
12-3-68	0.00	0.05	0.00	0.02	0.01	0.07	0.00	0.00	0.02	0.10
<u>Ashtabula</u>										
G33-3										
3-7-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	NS	NS	NS	NS	NS	NS	NS	NS	
6-25-68	0.00	0.03	0.00	0.00	0.01	0.03	0.00	0.00	0.10	0.13
9-3-68	0.00	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.20
10-15-68	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.10
12-3-68	0.00	0.07	0.00	0.01	0.01	0.08	0.00	0.00	0.00	0.10
<u>Conneaut</u>										
H36-5										
3-7-68	0.00		0.00		0.00		0.00	0.00		
4-29-68	0.00	NS	NS	NS	NS	NS	NS	NS	NS	
6-24-68	0.00	0.02	0.00	0.00	0.02	0.01	0.00	0.00	0.10	0.17
9-3-68	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01
10-14-68	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.01
12-2-68	0.00	0.02	0.00	0.02	0.01	0.05	0.00	0.00	0.00	0.01

TABLE 7
WATER INTAKE STUDY

PLANKTON

Toledo (E-03-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-4-68	638	946	66	-	-	-	88	22	1,760
3-12-68	5,984	1,452	132	-	-	44	176	-	7,788
3-18-68	28,336	1,804	88	-	-	88	176	44	30,536
3-26-68	3,168	616	132	-	-	-	-	-	3,916
4-10-68	22,528	1,496	264	-	44	-	-	88	24,420
4-09-68	140	580	100	20	-	-	-	60	900
4-15-68	2,156	1,056	418	-	-	44	22	44	3,740
4-23-68	2,618	242	220	-	-	-	110	22	3,212
4-29-68	1,232	308	332	-	-	22	-	22	1,916
5-7-68	2,486	198	506	-	-	22	66	44	3,322
5-14-68	2,530	396	1,672	22	22	22	88	22	4,774
5-26-68	594	88	1,364	-	44	22	44	-	2,156
5-27-68	2,244	440	2,332	88	-	-	176	-	5,280
6-04-68	800	80	800	-	40	-	-	40	1,760
6-11-68	1,760	44	616	44	-	-	44	-	2,508
6-18-68	3,344	396	1,980	-	-	44	88	-	5,852
6-24-68	1,474	308	4,884	132	44	396	836	44	8,118
7-02-68	240	40	460	40	20	20	20	20	860
7-09-68	1,800	80	1,600	40	-	80	80	-	3,680
7-16-68	66	22	308	-	-	-	396	22	814
7-23-68	80	-	80	-	-	-	340	-	500
7-30-68	105	15	180	-	15	-	90	-	405
8-06-68	120	-	160	-	40	-	180	20	520
8-13-68	120	-	240	-	2,880	680	80	-	4,000
8-19-68	572	44	572	-	13,904	2,112	132	-	17,336
8-27-68	320	40	440	-	7,600	3,920	120	-	12,440
9-4-68	160	-	520	-	10,400	1,560	40	40	12,720
9-10-68	90	-	36	-	72	1,152	-	-	1,350
9-16-68	66	-	88	-	242	814	88	-	1,298
9-24-68	88	-	220	-	176	1,914	286	-	2,684
9-30-68	88	-	220	-	132	4,048	264	-	4,752
10-8-68	185	37	-	-	-	1,591	-	-	1,813
10-14-68	88	-	484	-	-	2,640	-	-	3,212
10-22-68	-	-	111	-	-	2,442	37	-	2,590
10-28-68	88	110	220	176	88	682	66	-	1,430
11-4-68	1,221	111	777	37	37	851	111	-	3,145
11-12-68	2,640	-	352	44	-	1,056	-	-	4,092
11-19-68	286	88	176	-	-	418	66	-	1,034
11-26-68	1,980	44	660	-	88	176	-	-	2,948
12-2-68	5,832	162	432	-	-	-	108	-	6,534
12-10-68	656	54	18	18	-	-	36	36	818
12-18-68	522	36	252	-	36	-	18	-	864
12-24-68	616	44	66	11	-	11	11	-	759
12-31-68	1,188	110	22	-	-	22	-	-	1,342

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Port Clinton (C-07-04)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-4-68	3,564	1,320	132	-	-	-	-	88	5,104
3-12-68	3,454	2,398	66	-	-	-	-	66	5,984
3-18-68	102,150	1,800	-	-	-	-	-	450	104,400
3-26-68	28,116	1,584	440	-	-	-	44	-	30,184
4-2-68	48,600	2,700	450	-	-	-	450	-	52,200
4-09-68	4,400	1,760	280	-	-	-	40	-	6,480
4-15-68	1,606	2,354	198	-	22	-	44	22	4,246
4-23-68	638	264	407	22	-	-	-	-	1,331
4-29-68	836	220	330	-	-	-	66	88	1,540
5-7-68	968	308	990	-	-	22	44	-	2,332
5-14-68	506	209	341	22	-	11	11	-	1,100
5-21-68	360	160	760	-	-	-	80	-	1,360
5-27-68	286	110	748	-	22	-	154	-	1,320
6-04-68	2,728	176	1,496	-	-	-	-	-	4,400
6-11-68	1,280	-	960	40	-	120	40	-	2,440
6-18-68	1,188	88	1,628	88	44	132	44	-	3,212
6-24-68	1,040	80	2,560	160	40	640	280	40	4,840
7-02-68	100	20	860	-	20	-	60	-	1,060
7-09-68	198	66	770	22	44	154	220	-	1,474
7-16-68	280	-	200	20	20	60	40	-	620
7-23-68	180	20	240	20	140	20	40	20	680
7-30-68	80	40	880	-	2,120	200	40	-	3,360
8-06-68	200	-	160	-	440	840	80	40	1,760
8-13-68	440	80	1,880	40	3,000	1,360	520	-	7,320
8-19-68	154	22	616	-	1,672	924	176	-	3,564
8-27-68	1,040	240	1,520	-	3,480	7,200	1,160	40	14,680
9-4-68	462	-	264	-	-	660	-	-	1,386
9-10-68	222	-	185	-	333	1,221	37	-	1,998
9-18-68	111	-	111	-	148	1,036	111	-	1,517
9-24-68	140	-	420	-	320	540	120	-	1,540
9-30-68	200	200	920	40	960	2,240	120	-	4,680
10-8-68	162	72	306	-	108	864	108	-	1,620
10-14-68	111	37	148	37	37	1,221	37	-	1,628
10-22-68	54	54	180	-	36	810	-	-	1,134
10-28-68	198	220	726	88	22	2,662	44	-	3,960
11-4-68	132	88	528	132	44	1,276	44	-	2,244
11-19-68	306	36	306	54	-	234	54	-	990
12-3-68	154	22	176	66	-	22	22	-	462
12-10-68	810	108	594	108	-	18	72	-	1,710
12-18-68	666	108	270	18	-	-	126	-	1,188
12-24-68	864	36	450	36	-	-	-	18	1,404

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Sandusky (B-11-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-4-68	3,872	1,386	88	-	-	44	-	22	5,412
3-12-68	1,848	2,332	176	22	-	44	-	-	4,422
3-18-68	4,620	1,320	396	-	-	-	-	88	6,424
3-26-68	21,780	1,848	396	-	-	-	88	132	24,244
4-2-68	6,556	1,628	132	-	-	-	88	44	8,448
4-9-68	385	726	165	-	22	-	154	143	1,595
4-15-68	517	264	429	-	11	-	121	77	1,419
4-23-68	528	110	396	-	-	-	44	66	1,144
4-29-68	1,100	110	550	-	-	-	-	22	1,782
5-7-68	946	132	506	44	22	22	88	-	1,760
5-14-68	968	198	880	22	-	154	154	22	2,398
5-21-68	220	66	638	22	-	196	176	-	1,318
5-27-68	1,474	374	440	22	-	-	88	-	2,398
6-04-68	110	88	726	-	-	352	66	-	1,342
6-12-68	40	-	200	-	-	-	60	-	300
6-18-68	66	-	550	-	22	-	110	-	748
6-25-68	180	-	200	-	-	-	-	-	380
7-02-68	320	-	160	-	-	-	60	-	540
7-09-68	360	40	120	-	20	140	-	20	700
7-16-68	44	-	77	-	-	-	11	11	143
7-23-68	330	44	242	22	-	44	330	-	1,012
7-30-68	90	-	75	-	-	15	15	90	285
8-06-68	88	11	66	-	11	-	-	11	187
8-13-68	462	-	88	-	44	198	22	22	836
8-20-68	308	-	176	-	-	242	-	-	726
8-27-68	462	88	132	-	154	594	88	-	1,518
9-4-68	130	30	160	-	30	140	70	10	570
9-10-68	198	-	66	-	-	-	110	44	418
9-17-68	54	18	90	-	-	-	36	-	198
9-24-68	40	-	140	-	60	-	200	20	460
10-1-68	286	132	220	-	-	462	88	-	1,188
10-8-68	88	22	110	22	22	22	55	22	363
10-14-68	396	36	90	-	-	162	36	-	720
10-22-68	144	18	180	-	18	126	198	-	684
10-28-68	253	66	165	-	-	121	33	-	638
11-5-68	90	-	270	-	-	54	108	-	522
11-12-68	1,056	264	572	132	-	836	-	-	2,860
11-19-68	144	72	270	-	18	126	36	-	666
11-26-68	132	41	216	-	-	-	14	-	393
12-3-68	132	44	132	-	-	-	88	-	396
12-9-68	306	72	126	18	-	-	36	-	558
12-18-68	124	36	90	-	-	-	90	-	340
12-24-68	126	126	108	-	-	-	18	-	378
12-31-68	234	54	126	18	-	18	36	36	522

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Huron (A-12-04)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-4-68	1,012	968	66	-	-	-	44	66	2,156
3-12-68	2,046	1,914	220	-	22	22	22	88	4,334
3-18-68	2,310	1,144	110	-	22	-	-	88	3,674
3-26-68	12,276	2,684	88	-	-	-	-	220	15,268
4-2-68	2,684	2,156	132	-	-	-	264	66	5,302
4-9-68	660	990	176	-	-	22	176	132	2,156
4-16-68	160	60	240	-	-	-	100	160	720
4-									
4-23-68	308	165	242	-	-	-	55	22	792
4-30-68	528	88	332	-	-	-	-	-	948
5-7-68	1,012	253	308	11	11	22	55	55	1,727
5-15-68	726	176	484	11	22	66	143	22	1,650
5-21-68	242	88	506	22	-	44	44	-	946
5-27-68	1,738	154	528	-	-	-	132	44	2,596
6-12-68	20	-	120	-	-	-	60	-	200
6-18-68	320	-	760	20	-	-	220	20	1,340
6-25-68	418	22	198	-	-	-	66	-	704
7-02-68	200	20	220	-	-	-	120	-	560
7-09-68	160	-	120	-	-	-	40	-	320
7-16-68	66	11	66	-	-	-	22	-	165
7-23-68	286	22	176	22	-	22	682	264	1,474
7-30-68	140	20	80	-	-	260	40	180	720
8-06-68	180	-	20	-	-	-	20	100	320
8-20-68	396	22	132	-	22	132	132	-	836
8-27-68	80	40	120	40	320	1,480	160	40	2,280
9-4-68	120	80	360	-	420	100	100	-	1,180
9-10-68	72	-	54	-	18	18	18	-	180
9-17-68	180	36	108	18	18	18	54	-	432
9-24-68	40	20	240	-	40	20	180	-	540
10-1-68	130	70	210	-	-	130	100	-	640
10-9-68	36	18	252	-	18	36	-	-	360
10-14-68	126	18	72	-	-	-	18	-	234
10-21-68	90	54	162	-	-	-	18	-	324
10-29-68	242	11	110	-	-	55	22	-	440
11-5-58	96	12	168	12	-	24	60	-	372
11-12-68	220	88	110	-	-	616	22	-	1,056
11-19-68	88	55	77	-	-	132	-	-	352
12-3-68	120	30	165	-	15	-	30	-	360
12-11-68	306	36	252	-	-	-	36	-	630
12-18-68	234	72	288	-	-	-	-	-	594
12-23-58	162	36	252	-	-	-	36	-	486
12-31-68	96	60	48	-	-	-	12	-	216

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Vermilion (B-14-04)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-5-68	2,222	1,298	220	22	-	22	-	-	3,784
3-12-68	2,816	3,696	352	-	-	-	-	41	2,008
3-18-68	1,914	704	198	22	-	-	-	-	338
3-26-68	1,936	1,056	352	-	-	22	-	-	-
4-2-68	1,342	1,012	176	-	-	-	-	22	-
4-10-68	726	1,210	198	-	-	-	286	110	2,530
4-16-68	396	451	297	-	22	-	154	209	1,529
4-23-68	275	66	275	-	-	-	22	44	682
4-30-68	605	66	341	-	-	-	-	66	1,078
5-7-68	1,562	682	792	22	-	-	88	22	3,168
5-14-68	1,012	418	550	22	-	66	88	22	2,178
5-21-68	800	80	940	-	-	-	240	20	2,080
5-27-68	1,914	660	264	-	-	22	44	-	2,904
6-04-68	80	-	260	-	20	-	100	-	460
6-12-68	132	44	220	-	22	-	110	22	550
6-18-68	44	-	220	-	-	-	-	-	264
6-25-68	704	22	462	22	-	-	22	-	1,232
7-02-68	140	20	220	-	-	-	120	-	500
7-09-68	75	-	45	-	-	-	105	-	225
7-16-68	10	-	30	-	10	-	20	-	70
7-23-68	100	-	110	-	10	10	30	50	310
7-30-68	40	-	40	-	-	-	80	180	340
8-06-68	-	44	132	22	-	-	88	418	704
8-14-68	75	15	90	-	15	30	30	-	255
8-20-68	-	-	200	60	200	200	60	-	720
8-27-68	60	-	160	-	220	6,880	80	-	7,400
9-5-68	40	40	320	40	580	20	60	-	1,100
9-10-68	132	88	198	154	-	-	44	22	638
9-17-68	72	72	234	18	-	-	18	-	414
9-24-68	-	88	198	88	44	-	286	-	704
10-1-68	-	20	320	-	40	-	80	-	460
10-8-68	72	36	162	-	-	-	36	-	306
10-16-68	117	-	171	-	-	-	72	-	360
10-22-68	66	-	110	-	-	55	-	-	231
10-29-68	336	140	84	-	28	28	112	-	728
11-5-68	36	27	162	-	9	27	45	-	306
11-12-68	110	66	165	-	-	11	-	-	352
11-19-68	330	66	44	-	-	176	44	-	660
11-27-68	108	60	180	-	-	36	-	-	384
12-3-68	88	66	132	-	-	-	-	-	286
12-10-68	378	36	54	36	-	-	18	-	522
12-17-68	324	18	126	-	-	-	-	-	468
12-24-68	180	18	90	-	-	-	36	-	324
12-31-68	324	54	126	-	-	-	18	-	522

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Elyria (B-16-06)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-5-68	2,156	1,474	220	-	-	88	-	-	3,938
3-12-68	2,838	2,266	286	-	-	-	-	-	5,390
3-18-68	1,804	1,232	176	-	44	-	22	22	3,300
3-26-68	7,788	2,420	528	-	-	-	44	132	10,912
4-2-68	1,452	2,112	110	-	-	22	132	44	3,872
4-09-68	200	320	240	-	-	-	260	100	1,120
4-16-68	836	704	110	-	22	-	22	132	1,826
4-23-68	319	121	330	-	-	-	22	66	858
4-30-68	781	319	264	-	-	-	11	77	1,452
5-									
5-15-68	1,034	198	1,320	22	-	66	66	44	2,750
5-									
5-27-68	1,089	187	363	-	-	-	110	-	1,749
6-04-68	230	-	418	-	-	-	264	-	912
6-12-68	360	-	280	-	-	-	200	20	860
6-18-68	22	22	132	-	-	-	88	-	264
6-25-68	460	-	240	-	20	-	80	-	800
7-02-68	80	-	240	-	-	-	220	-	540
7-09-68	55	-	11	-	-	-	-	-	66
7-23-68	90	-	140	20	-	-	70	40	360
7-30-68	40	-	60	-	-	-	600	300	1,000
8-06-68	-	66	176	-	-	-	110	220	572
8-20-68	-	20	280	-	20	300	80	-	700
8-27-68	160	120	400	-	1,320	3,600	200	40	5,840
9-5-68	80	40	400	40	1,520	-	160	-	2,240
9-10-68	-	-	-	22	22	22	-	-	66
9-18-68	90	90	198	108	-	-	-	-	486
10-1-68	40	20	340	40	20	-	180	-	640
10-8-68	54	18	181	-	18	-	9	-	280
10-15-68	36	-	315	9	9	-	27	18	414
10-29-68	242	176	308	-	44	132	22	-	924
11-5-68	36	36	198	-	-	36	72	-	378
11-20-68	228	46	96	24	-	168	48	-	660
12-3-68	264	44	154	-	-	22	22	-	506
12-17-68	306	54	36	-	-	-	36	36	468

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Lorsain (B-16-05)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Coccolid	Filamentous	Coccolid	Filamentous	Green	Other	
3-5-68	5,918	3,982	220	22	-	44	44	-	10,230
3-12-68	2,442	2,244	110	-	22	-	22	44	4,884
3-18-68	1,628	1,408	242	44	66	-	22	22	3,432
3-26-68	2,684	2,420	264	-	-	-	-	-	5,368
4-2-68	3,124	3,300	132	44	-	44	44	-	6,688
4-09-68	440	420	320	-	20	-	100	100	1,400
4-16-68	550	286	352	-	-	22	110	264	1,584
4-23-68	319	99	481	-	-	11	22	77	1,009
4-30-68	924	374	396	-	-	-	-	22	1,714
5-02-68	792	132	396	176	-	110	110	-	1,716
5-07-68	1,936	330	770	22	-	-	44	22	3,124
5-14-68	1,980	484	1,430	22	110	88	22	22	4,158
5-27-68	1,210	154	132	22	-	-	44	44	1,606
6-04-68	132	-	352	-	22	-	902	-	1,408
6-12-68	154	22	198	-	-	-	462	-	836
6-18-68	44	-	308	-	22	-	132	-	506
6-25-68	176	22	220	-	22	-	22	-	462
7-02-68	154	-	154	-	22	-	110	-	440
7-09-68	22	-	77	-	-	-	44	-	143
7-16-68	22	-	44	11	-	11	77	-	165
7-23-68	60	-	105	-	-	-	30	15	210
7-30-68	40	-	110	-	-	-	80	140	370
8-07-68	20	-	180	-	20	80	60	60	420
8-13-68	40	40	40	-	40	20	-	20	200
8-20-68	44	88	88	88	110	264	22	-	704
8-27-68	100	20	140	20	640	1,820	60	40	2,840
9-5-68	20	60	420	-	1,240	80	60	-	1,880
9-10-68	-	126	234	18	-	-	90	-	468
9-18-68	126	162	198	18	18	-	-	-	522
9-24-68	-	40	220	-	-	-	140	-	400
10-1-68	40	220	320	-	20	-	120	-	720
10-15-68	36	-	162	-	-	-	-	-	198
10-22-68	88	22	242	-	-	44	22	-	418
10-29-68	120	36	168	-	-	36	-	-	360
11-5-68	90	54	162	-	-	54	108	-	468
11-13-68	228	72	168	-	12	36	-	-	516
11-20-68	288	84	240	12	-	168	-	-	792
11-26-68	108	54	81	-	-	18	9	-	270
12-3-68	168	90	195	-	-	-	15	-	465
12-10-68	180	106	198	-	-	-	18	-	502
12-17-68	378	216	108	36	-	36	36	-	810
12-24-68	No sample		-	-	-	-	-	-	-
12-31-68	216	162	90	-	-	18	-	-	486

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Avon Lake (C-18-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-5-68	1,056	1,452	198	-	44	-	44	66	2,860
3-12-68	1,320	1,232	330	22	-	-	-	44	2,948
3-19-68	2,794	1,474	330	-	22	22	88	-	4,730
3-26-68	1,364	1,386	264	22	-	-	22	88	3,146
4-3-68	1,188	1,386	308	-	-	-	22	-	2,904
4-09-68	560	1,040	320	-	-	40	40	80	2,080
4-16-68	484	550	308	-	-	-	44	44	1,430
4-23-68	352	176	220	-	-	-	66	132	946
4-30-68	746	154	88	-	-	-	-	44	1,032
5-8-68	1,914	616	1,254	-	22	-	66	44	3,916
5-15-68	1,034	22	682	22	-	-	66	22	1,848
5-21-68	506	44	572	-	-	22	66	-	1,210
5-27-68	341	352	198	11	-	-	44	-	946
6-04-68	100	-	280	-	-	-	200	20	600
6-12-68	242	-	374	-	22	-	264	22	924
6-18-68	22	-	66	-	-	-	22	22	132
6-25-68	396	22	264	44	-	-	-	-	726
7-02-68	220	40	260	-	-	-	100	40	660
7-09-68	22	-	66	22	-	-	88	-	198
7-16-68	-	-	135	-	-	15	300	15	465
7-23-68	198	66	176	198	-	-	22	-	660
7-30-68	40	20	80	20	40	-	60	120	380
8-07-68	-	-	22	176	-	-	110	44	352
8-13-68	-	-	60	-	120	60	60	40	340
8-20-68	-	40	280	-	340	640	160	40	1,500
8-27-68	22	44	132	-	814	3,036	22	-	4,070
9-5-68	40	20	480	80	1,200	40	60	-	1,920
9-12-68	90	54	180	-	18	-	72	-	414
9-18-68	-	66	110	-	-	-	-	22	198
10-2-68	45	30	180	45	-	-	150	-	450
10-8-68	45	90	117	-	-	-	54	-	306
10-15-68	54	18	288	-	-	-	-	18	378
10-22-68	90	36	144	-	-	9	72	-	351
10-29-68	132	132	308	-	-	22	22	-	616
11-5-68	-	-	132	-	-	22	88	-	242
11-12-68	135	54	135	-	-	18	18	-	360
11-20-68	288	108	270	-	-	126	-	-	792
11-26-68	132	24	180	-	-	60	12	-	408
12-4-68	150	90	195	-	-	15	45	-	495
12-17-68	432	90	144	18	-	-	18	-	702
12-24-68	270	18	90	18	-	-	-	-	396
12-31-58	126	54	90	-	-	-	36	-	306

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Crown (C-20-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-5-68	2,068	1,672	242	44	-	-	-	88	4,114
3-12-68	2,200	1,562	352	-	-	-	-	-	4,114
3-19-68	2,552	2,134	198	-	-	22	22	44	4,972
3-26-68	1,012	1,650	176	-	-	-	22	-	2,860
4-3-68	1,012	946	220	-	-	22	264	44	2,508
4-09-68	480	100	240	-	-	-	100	200	1,120
4-16-68	968	407	264	-	-	-	33	187	1,859
4-23-68	616	88	385	-	-	-	77	77	1,243
4-30-68	858	308	440	-	-	-	-	-	1,606
5-7-68	1,166	264	814	-	-	-	22	44	2,310
5-15-68	858	110	264	22	-	-	55	11	1,320
5-22-68	132	44	132	-	-	-	154	-	462
5-27-68	506	33	176	-	-	-	33	-	748
6-05-68	120	-	120	-	-	-	60	20	320
6-12-68	120	20	100	-	-	-	20	-	260
6-19-68	80	-	60	-	-	20	20	-	180
6-26-68	940	60	100	-	-	20	40	-	1,160
7-10-68	110	22	44	22	-	-	-	-	198
7-16-68	120	-	90	-	-	-	150	-	360
7-24-68	50	10	40	50	-	-	10	-	160
7-30-68	66	66	44	-	-	-	132	66	374
8-08-68	75	15	105	60	-	-	45	60	360
8-14-68	10	10	70	-	-	30	20	-	140
8-22-68	-	-	140	-	20	20	40	-	220
8-27-68	66	66	220	-	66	308	44	-	770
9-5-68	-	-	50	20	-	-	80	-	150
9-10-68	-	66	-	-	-	-	88	-	154
9-18-68	54	-	36	-	-	-	54	-	144
10-2-68	20	10	160	-	-	-	60	20	270
10-8-68	36	90	140	-	-	36	-	-	306
10-15-68	36	-	162	-	-	-	-	-	198
10-22-68	28	14	252	14	-	14	168	-	490
10-29-68	306	288	522	18	-	54	90	-	1,278
11-5-68	48	24	180	-	-	12	36	-	300
11-20-68	925	1,073	1,295	37	-	222	74	-	3,626
11-26-68	66	44	22	22	-	22	44	-	220
12-4-68	66	33	110	-	11	11	55	-	286
12-10-68	208	36	162	18	-	18	18	18	478
12-17-68	486	72	90	90	-	-	18	-	756
12-24-68	264	88	132	-	-	44	66	-	594

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Division (C-21-03)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-6-68	1,408	572	110	-	-	-	-	22	2,112
3-12-68	1,914	1,628	176	22	22	22	-	-	3,784
3-19-68	1,298	770	176	-	-	-	22	-	2,266
3-26-68	1,870	1,408	330	-	-	22	88	110	3,828
4-3-68	1,232	1,078	132	-	-	-	88	110	2,640
4-10-68	528	190	198	22	-	-	88	44	1,078
4-16-68	260	160	520	-	-	-	40	100	1,080
4-30-68	704	176	363	11	-	-	22	132	1,408
5-7-68	1,782	220	726	-	-	-	-	22	2,750
5-15-68	880	66	660	-	22	-	220	66	1,914
5-21-68	462	22	66	-	-	-	220	-	770
5-29-68	814	22	396	-	-	-	198	-	1,430
6-11-68	66	22	110	-	-	-	264	-	462
6-12-68	110	-	66	-	-	-	88	22	286
6-18-68	75	-	135	-	-	-	-	-	210
6-26-68	1,034	22	132	-	-	-	66	-	1,254
7-02-68	40	20	100	-	-	-	680	-	840
7-10-68	-	-	60	-	-	-	40	-	100
7-16-68	-	-	22	242	-	-	132	-	396
7-24-68	-	-	110	20	-	-	70	-	200
7-30-68	-	-	45	30	-	-	45	15	135
8-09-68	-	10	80	20	-	-	30	-	140
8-20-68	-	-	180	20	280	-	-	-	480
8-21-68	-	-	140	-	20	220	-	-	380
8-28-68	11	-	44	-	77	88	11	-	231
9-5-68	40	10	220	10	30	80	-	-	420
9- -68	-	-	-	-	-	-	-	-	-
9-18-68	54	18	162	0	-	36	36	-	306
9-24-68	22	-	242	22	22	22	44	-	374
10-1-68	20	-	130	-	-	-	20	-	170
10-8-68	72	-	90	-	18	-	-	-	180
10-15-68	44	-	44	22	44	44	176	-	374
10-22-68	90	90	27	-	18	-	9	-	234
10-30-68	88	110	220	-	-	-	132	-	550
11-5-68	81	-	144	-	-	18	45	-	288
11-12-68	418	242	396	-	-	44	-	-	1,100
11-19-68	187	44	176	-	-	44	-	11	462
12-3-68	66	66	66	-	-	22	-	-	220
12-10-68	528	66	220	-	-	-	44	-	858
12-18-68	946	242	286	-	-	-	132	22	1,628

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Baldwin (C-21-04)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-6-68	1,694	264	132	-	22	-	66	44	2,222
3-19-68	1,254	638	220	22	-	-	154	110	2,398
3-26-68	1,474	990	176	-	-	-	132	-	2,772
4-3-68	1,452	814	242	-	-	-	88	88	2,684
4-9-68	1,166	528	418	-	22	-	110	88	2,332
4-16-68	440	40	700	-	-	-	120	60	1,360
4-23-68	242	110	330	-	-	-	66	154	902
4-30-68	748	154	902	-	-	-	44	88	1,936
5-7-68	1,144	88	1,056	-	-	-	44	-	2,332
5-15-68	682	66	440	-	11	22	132	44	1,397
5-21-68	242	132	198	-	-	44	548	-	1,164
5-29-68	704	22	528	-	22	-	132	-	1,408
6-04-68	30	-	20	10	-	-	30	10	100
6-12-68	-	-	40	20	-	-	240	-	300
6-18-68	-	-	77	-	-	-	77	-	154
6-25-68	-	-	40	-	-	-	80	-	120
7-02-68	20	-	300	-	-	-	720	-	1,040
7-10-68	22	11	22	-	-	-	55	-	110
7-16-68	-	-	80	200	60	20	520	-	880
7-23-68	-	15	60	60	-	-	135	45	315
7-30-68	10	-	60	80	-	-	70	110	330
8-09-68	-	15	105	45	-	30	15	60	270
8-13-68	10	-	70	60	-	-	-	-	140
8-21-68	-	-	44	22	-	242	22	-	330
8-27-68	60	-	80	-	40	40	-	-	220
9-5-68	-	20	160	-	160	60	60	20	480
9-10-68	18	18	90	-	-	36	36	-	198
9-17-68	52	26	182	-	26	52	26	-	364
9-24-68	-	-	210	20	-	20	20	-	370
10-1-68	66	33	99	-	11	-	33	-	242
10-8-68	36	24	120	-	-	12	12	-	204
10-15-68	55	11	176	-	22	33	44	-	341
10-22-68	18	18	90	-	-	-	-	-	126
10-30-68	77	154	209	-	-	11	11	-	462
11-5-68	44	11	77	-	-	-	11	-	143
11-19-68	264	154	264	-	-	88	-	-	770
11-26-68	45	63	36	-	-	9	27	-	180
12-3-68	99	33	110	-	-	-	-	-	242
12-10-68	270	18	126	-	-	18	-	-	432
12-18-68	414	18	108	18	-	-	36	-	594
12-24-68	748	484	132	-	-	-	-	-	1,364

TABLE 7.(Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Nottingham (D-23-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-6-68	748	286	374	-	22	-	-	66	1,496
3-12-68	946	352	110	22	-	-	-	22	1,452
3-19-68	2,178	396	176	-	-	-	22	22	2,794
3-26-68	1,210	506	396	-	-	-	88	88	2,288
4-2-68	1,078	880	110	-	-	-	44	110	2,222
4-10-68	360	40	120	-	-	-	180	80	780
4-16-68	924	506	396	-	-	-	132	110	2,068
4-23-68	462	220	330	-	-	-	-	110	1,122
4-30-68	748	66	440	-	-	-	-	132	1,386
5-6-68	990	88	924	-	-	-	22	22	2,046
5-15-68	1,034	99	297	-	-	-	22	33	1,485
5-21-68	460	180	480	-	-	-	20	-	1,140
5-29-68	704	154	154	22	-	-	154	-	1,188
6-05-68	44	11	44	-	-	-	-	-	99
6-11-68	44	44	22	-	-	-	-	-	110
6-18-68	10	20	60	-	-	-	10	10	110
6-25-68	33	-	66	11	-	-	-	-	110
7-10-68	20	-	40	50	-	-	20	-	130
7-16-68	40	-	100	110	-	-	-	-	250
7-23-68	-	-	88	209	-	-	22	11	330
7-30-68	20	-	100	30	10	-	120	40	320
8-07-68	30	-	110	60	-	-	20	10	230
8-13-68	-	-	120	10	-	-	20	-	150
8-21-68	-	-	100	-	-	-	20	30	150
8-28-68	15	75	75	30	-	-	60	-	255
9-5-68	20	20	240	40	40	20	-	-	380
9-10-68	36	18	90	-	-	-	-	36	180
9-17-68	36	18	162	-	90	-	90	-	396
9-24-68	36	-	162	-	-	-	-	-	198
10-1-68	-	22	110	11	-	-	33	-	176
10-9-68	84	36	24	12	-	-	-	-	156
10-15-68	60	24	120	-	-	-	12	12	228
10-28-68	144	54	180	18	-	-	18	-	414
10-29-68	99	81	216	18	18	9	18	-	459
11-5-68	77	-	77	-	-	-	11	-	165
11-19-68	110	22	198	22	-	44	-	-	396
11-26-68	153	36	81	-	-	9	9	-	288
12-3-68	44	55	99	-	-	-	-	-	198
12-12-68	126	36	72	18	-	-	18	-	270
12-18-68	252	36	108	-	-	-	18	-	414
12-24-68	126	18	90	-	-	-	18	-	252
12-31-68	72	12	132	-	-	-	24	-	240

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Ohio Water Service-Mentor (E-26-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-6-68	1,914	154	110	22	-	-	-	22	2,222
3-12-68	2,540	308	110	-	66	-	-	44	3,068
3-19-68	6,930	418	440	-	22	-	22	22	7,854
3-26-68	12,364	220	440	-	-	-	-	-	13,024
4-2-68	12,452	792	528	-	-	-	132	88	13,992
4-9-68	1,232	1,254	242	-	-	-	110	154	2,992
4-16-68	660	528	726	-	-	-	132	22	2,068
4-23-68	594	121	462	-	-	-	33	176	1,386
4-30-68	825	231	429	-	-	-	-	44	1,529
5-7-68	1,078	88	770	-	-	22	-	22	1,980
5-14-68	792	44	638	-	22	-	-	-	1,496
5-21-68	860	60	460	-	-	20	-	20	1,420
5-29-68	1,298	726	352	-	-	-	22	22	2,420
6-04-68	110	44	66	-	-	-	198	-	418
6-11-68	88	-	132	-	-	-	88	-	308
6-19-68	22	-	22	-	-	-	66	-	110
6-25-68	220	22	154	-	-	-	-	-	396
7-02-68	220	-	140	-	-	-	200	-	560
7-10-68	-	-	140	40	-	-	200	20	400
7-16-68	44	66	176	198	-	-	286	-	770
7-23-68	70	30	130	40	-	-	50	-	320
7-30-68	60	105	195	30	15	-	135	-	540
8-09-68	-	-	200	60	-	-	20	-	280
8-20-68	22	22	286	-	-	66	22	-	418
8-27-68	80	20	140	20	1,280	400	20	20	1,980
9-3-68	20	20	240	40	100	80	20	-	520
9-4-68	40	-	320	-	1,240	240	80	120	2,040
9-10-68	-	36	108	-	-	-	18	-	162
9-17-68	-	18	126	-	-	18	18	-	180
9-25-68	-	80	480	-	480	120	180	-	1,340
10-1-68	-	40	500	-	-	40	120	20	720
10-9-68	22	44	220	22	22	-	-	-	330
10-15-68	54	-	126	-	54	-	198	18	450
10-23-68	126	36	306	18	-	36	18	-	540
10-29-68	33	55	165	-	11	11	-	-	275
11-5-68	75	15	105	-	-	-	75	-	270
11-12-68	84	14	126	-	-	28	28	-	280
11-19-68	132	55	77	-	-	22	-	-	286
11-26-68	110	154	176	-	-	44	-	-	484
12-3-68	117	18	54	-	-	27	18	-	234
12-10-68	234	36	108	-	-	-	-	-	378
12-18-68	72	308	72	-	-	-	54	-	198
12-24-68	330	-	44	-	-	-	-	-	682
12-31-68	154	110	66	-	-	-	33	-	363

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Painesville (F-27-18)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-6-68	4,202	286	242	-	22	-	-	44	4,796
3-13-68	5,478	132	242	22	-	-	-	-	5,874
3-19-68	5,852	264	308	-	-	-	-	-	6,424
3-26-68	6,644	264	264	-	-	-	132	88	7,392
4-2-68	20,724	269	396	-	-	-	44	-	21,433
4-10-68	1,100	594	484	-	44	-	154	-	2,376
4-16-68	380	320	700	-	-	-	-	60	1,460
4-24-68	1,122	858	264	-	-	-	22	22	2,288
4-30-68	726	418	352	22	-	-	22	-	1,540
5-7-68	968	110	638	-	-	-	-	-	1,716
5-14-68	638	154	550	22	-	22	44	66	1,496
5-									
5-29-68	1,144	220	550	-	44	-	88	-	2,046
6-05-68	75	-	15	15	-	-	105	-	210
6-11-68	80	60	60	-	-	-	180	-	380
6-18-68	-	-	20	-	-	-	40	-	60
6-25-68	40	60	280	-	-	-	700	-	1,080
7-02-68	300	40	380	-	20	-	220	-	960
7-10-68	140	-	100	-	-	-	80	20	340
7-16-68	110	44	352	22	22	-	528	-	1,078
7-23-68	44	22	176	110	-	-	110	-	462
7-30-68	45	15	90	30	-	-	195	45	420
8-09-68	-	26	208	13	-	-	117	13	377
8-16-68	66	-	330	-	44	198	22	-	660
8-20-68	44	44	506	-	110	154	22	44	924
8-27-68	40	20	160	-	500	60	40	-	820
9-3-68	-	120	760	-	1,280	160	40	-	2,360
9-10-68	-	36	72	-	-	-	18	-	126
9-17-68	-	-	126	-	-	-	18	-	144
9-25-68	-	-	260	-	60	20	200	-	540
10-1-68	60	30	525	15	-	-	90	-	720
10-9-68	18	18	90	-	-	36	18	18	198
10-15-68	36	9	252	9	9	9	72	-	396
10-22-68	-	-	504	-	-	-	112	-	616
10-29-68	66	88	121	-	-	33	33	-	341
11-5-68	22	11	121	-	-	-	77	-	231
11-13-68	108	72	90	-	-	-	36	-	306
11-19-68	108	72	36	-	-	18	-	-	234
11-26-68	168	36	96	-	-	36	24	-	360
12-3-68	143	33	33	-	-	-	-	-	209
12-10-68	180	18	18	18	-	-	36	-	270
12-18-68	126	18	90	-	-	-	-	-	234
12-24-68	242	264	-	-	-	-	-	-	506
12-31-68	117	54	45	-	-	-	18	-	234

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Ohio Water Service-Madison (G-30-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-7-68	2,442	396	198	-	-	-	22	-	3,058
3-12-68	4,312	220	264	-	-	-	-	-	4,796
3-19-68	13,244	396	176	-	22	-	44	44	13,926
3-26-68	17,732	308	88	-	-	-	-	44	18,172
4-2-68	220	704	176	-	-	-	-	-	1,100
4-09-68	880	280	420	-	-	-	9	100	1,760
4-16-68	484	440	220	-	-	-	286	44	1,474
4-26-68	638	374	374	22	-	-	-	-	1,408
4-30-68	770	66	572	-	-	-	-	44	1,452
5-7-68	594	154	572	-	22	-	-	88	1,430
5-14-68	825	165	319	-	-	33	-	-	1,342
5-21-68	240	100	120	-	-	-	20	-	480
5-29-68	1,012	286	528	22	-	-	44	22	1,914
6-04-68	120	60	120	-	-	-	60	-	360
6-11-68	88	88	-	-	-	-	44	-	220
6-18-68	30	-	30	-	-	-	30	-	90
6-25-68	200	40	340	20	-	-	40	-	640
7-02-68	320	20	340	20	-	-	200	20	920
7-16-68	-	40	300	440	-	-	180	20	980
7-23-68	160	80	60	120	-	-	20	-	440
7-30-68	44	22	88	88	-	-	-	-	242
8-09-68	10	-	90	10	-	10	30	-	150
8-13-68	22	22	44	22	-	-	-	22	132
8-20-68	66	44	220	-	110	44	22	-	506
8-27-68	-	40	200	-	1,520	320	-	-	2,080
9-3-68	20	40	400	40	60	120	40	-	720
9-10-68	-	88	110	22	-	-	110	-	330
9-17-68	-	36	126	-	-	18	18	36	234
9-24-68	10	-	260	20	30	-	120	10	450
10-1-68	22	66	638	22	-	44	132	-	924
10-8-68	11	22	143	-	-	11	11	-	198
10-15-68	27	-	81	27	-	-	18	-	153
10-22-68	-	66	374	-	-	-	66	22	528
10-29-68	72	126	252	-	-	-	18	-	468
11-5-68	45	9	99	-	-	-	18	-	171
11-12-68	90	-	36	-	-	-	-	-	126
11-19-68	144	126	180	-	-	-	-	-	450
11-26-68	165	30	15	-	-	15	-	-	225
12-3-68	132	44	55	-	-	22	11	-	264
12-10-68	90	-	18	-	-	18	-	-	126
12-18-68	308	198	132	-	-	22	22	-	682
12-24-68	66	99	55	11	-	-	-	-	231

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Ashtabula (G-33-03)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-7-68	2,068	176	154	-	-	22	-	-	2,420
3-12-68	3,718	220	198	-	-	-	-	22	4,158
3-									
3-26-68	4,378	88	154	-	-	-	66	88	4,774
4-2-68	10,164	176	308	-	-	44	44	-	10,736
4-10-68	1,704	640	640	-	-	-	80	40	3,104
4-16-68	1,804	748	1,078	-	-	-	154	22	3,806
4-24-68	3,784	2,112	1,364	-	-	-	-	220	7,480
4-30-68	803	187	231	-	-	-	-	44	1,265
5-									
5-14-68	880	22	682	-	-	-	44	-	1,628
5-21-68	440	240	120	60	-	-	40	40	940
5-28-68	330	198	440	-	-	-	44	-	1,012
6-04-68	50	30	150	20	10	-	110	50	420
6-11-68	22	-	66	-	-	-	220	-	302
6-19-68	45	30	-	90	-	-	45	-	210
6-25-68	20	-	160	20	-	-	40	-	240
7-02-68	20	20	240	-	20	-	40	-	340
7-10-68	20	10	50	10	-	-	-	10	100
7-16-68	22	88	374	572	-	-	440	-	1,496
7-23-68	-	45	75	300	-	-	-	-	420
7-31-68	-	22	132	44	22	-	-	22	242
8-09-68	-	40	120	-	20	-	40	20	240
8-13-68	280	20	300	-	-	120	160	20	900
8-20-68	-	10	40	-	20	-	10	10	90
9-3-68	-	40	300	-	40	160	80	-	620
9-10-68	18	-	162	-	-	18	-	-	198
9-17-68	-	-	200	20	100	-	20	-	340
9-23-68	-	36	270	-	-	18	90	-	414
10-1-68	44	176	528	44	-	-	44	-	836
10-15-68	9	9	162	-	-	-	9	18	207
10-22-58	36	-	63	-	18	-	-	-	117
10-29-68	176	198	550	22	-	-	44	-	990
11-5-68	12	12	108	-	-	-	-	-	132
11-14-68	55	22	66	-	-	-	-	-	143
11-19-68	84	84	168	-	-	-	12	-	348
12-3-68	126	9	18	-	-	36	-	-	189
12-10-68	72	18	36	-	-	36	18	-	180
12-17-68	234	-	36	-	-	-	-	-	270
12-24-68	108	60	84	-	-	12	-	-	264
12-31-68	22	44	33	-	-	-	22	-	121

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Eastlake (E-25-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./ml
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
10-1-68	120	20	320	20	-	60	80	-	620
10-16-68	36	-	90	-	18	36	126	18	324
10-28-68	54	72	90	-	-	18	-	-	234
11-6-68	37	37	222	37	-	-	37	-	370
11-18-68	121	-	33	-	-	11	-	-	165
12-18-68	126	18	36	18	-	-	36	-	234

TABLE 7 (Concluded)

WATER INTAKE STUDY

PLANKTON

Conneaut (H-36-05)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-7-68	847	88	99	-	-	-	-	-	1,034
3-12-68	2,684	220	264	-	-	-	-	-	3,168
3-19-68	2,778	308	88	22	-	-	-	22	3,168
3-26-68	1,804	66	22	-	-	-	22	-	1,914
4-2-68	13,860	220	396	-	-	-	-	-	14,476
4-10-68	3,212	88	176	-	-	-	22	44	3,542
4-15-68	1,782	440	1,364	22	22	-	176	154	3,960
4-23-68	704	44	484	22	44	-	22	66	1,386
4-29-68	No Sample								
5-7-68	1,276	132	990	-	-	-	-	-	2,398
5-14-68	275	55	374	-	-	-	11	22	737
5-21-68	88	44	198	-	-	-	66	-	396
5-27-68	1,012	242	396	22	-	-	66	-	1,738
6-04-68	44	-	110	-	-	-	176	-	330
6-10-68	-	20	40	-	-	-	-	-	60
6-18-68	22	22	-	-	-	-	22	-	66
6-20-68	10	-	50	20	-	-	-	-	80
7-02-68	-	-	40	-	-	-	-	-	40
7-09-68	-	-	140	-	-	-	40	-	180
7-16-68	-	-	220	140	-	-	520	-	880
7-22-68	10	20	80	40	10	-	20	60	240
7-30-68	40	20	180	20	20	-	80	60	420
8-06-68	-	40	120	340	-	-	20	-	520
8-09-68	40	-	140	240	20	20	20	-	480
8-13-68	-	-	80	-	-	380	-	20	480
8-19-68	-	20	100	-	80	220	80	20	520
8-27-68	88	66	154	44	88	66	44	-	550
9-3-68	-	60	200	100	940	40	-	-	1,340
9-10-68	-	-	110	44	-	-	44	-	198
9-16-68	-	18	36	-	-	-	90	36	180
9-25-68	Not Preserved								
9-30-68	66	88	550	44	-	-	44	-	792
10-8-68	-	-	132	-	-	-	72	-	204
10-14-68	11	22	275	-	-	-	33	-	341
10-22-68	-	18	90	-	-	-	-	-	108
10-28-68	48	36	36	12	-	-	24	-	156
11-4-68	9	-	63	-	-	-	-	9	81
11-12-68	56	42	168	-	-	-	84	-	350
11-18-68	45	18	126	-	-	-	-	-	189
11-26-68	132	22	-	-	-	22	-	-	176
12-2-68	135	15	45	-	-	60	15	-	270
12-10-68	220	170	66	-	-	22	44	-	528
12-17-68	198	90	36	-	-	-	-	-	324
12-24-68	195	75	30	-	-	-	15	-	315
12-31-68	162	72	36	-	155	-	-	-	270

TABLE 8

DOMINANT PHYTOPLANKTON

Station E-03-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-4-68	Asterionella	Cyclo-Steph			1,760
3-12-68	Cyclo-Steph*	Asterionella	Melosira	Trachelomonas	7,788
3-18-68	Cyclo-Steph	Asterionella	Melosira		30,536
3-26-68	Cyclo-Steph	Asterionella	Melosira		3,916
4-1-68	Cyclo-Steph	Asterionella	Melosira		24,420
4-9-68	Asterionella	Cyclo-Steph	Tabellaria		900
4-15-68	Cyclo-Steph	Asterionella	Melosira	Ankistrodesmus	4,740
4-23-68	Melosira	Cyclo-Steph	Ankistrodesmus		3,212
4-29-68	Cyclo-Steph	Melosira	Asterionella	Scenedesmus	1,916
5-7-68	Melosira	Cyclo-Steph	Ankistrodesmus	Scenedesmus	3,322
5-14-68	Melosira	Cyclo-Steph	Scenedesmus	Ankistrodesmus	4,774
5-26-68	Melosira	Scenedesmus	Ankistrodesmus	Tetrastrum	2,156
5-27-68	Cyclo-Steph	Scenedesmus	Melosira	Tetrastrum	5,280
6-04-68	Melosira	Scenedesmus	Cyclo-Steph	Tetrastrum	1,760
6-11-68	Melosira	Cyclo-Steph	Oocystis	Oocystis	2,508
6-18-68	Melosira	Cyclo-Steph	Scenedesmus	Tetrastrum	5,852
6-24-68	Scenedesmus	Cyclo-Steph	Ankistrodesmus	Tetrastrum	8,118
7-02-68	Scenedesmus	Cyclo-Steph	Ankistrodesmus		860
7-09-68	Cyclo-Steph	Melosira	Scenedesmus		3,680
7-16-68	Phacus	Scenedesmus	Phacotus		814
7-23-68	Phacus	Phacotus	Cyclo-Steph		500
7-30-68	Cyclo-Steph	Oocystis	Phacus		405
8-06-68	Cyclo-Steph	Oocystis	Cryptomonas		520
8-13-68	Anacystis	Aphanizomenon	Cyclo-Steph		4,000
8-19-68	Anacystis	Aphanizomenon	Cyclo-Steph	Anabaena	17,336
8-27-68	Anacystis	Aphanizomenon	Cyclo-Steph	Gomphosphaeria	12,440
9-4-68	Anacystis	Aphanizomenon	Cyclo-Steph	Anabaena	12,720
9-10-68	Aphanizomenon	Cyclo-Steph	Anacystis	Oscillatoria	1,350
9-16-68	Oscillatoria	Anacystis	Aphanizomenon	Cyclo-Steph	1,298
9-24-68	Oscillatoria	Aphanizomenon	Anacystis	Phacotus	2,684
9-30-68	Aphanizomenon	Oscillatoria	Phacotus	Anabaena	4,752

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station E-03-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-8-68	Oscillatoria	1,443 Cyclo-Steph	185 Aphanizomenon	148 Diatoma	37
10-14-68	Aphanizomenon	1,980 Oscillatoria	660 Oocystis	132 Scenedesmus	132
10-22-68	Oscillatoria	1,776 Aphanizomenon	666 Scenedesmus	74 Phacatus	37
10-28-68	Aphanizomenon	616 Oedogonium	176 Scenedesmus	132 Fragillaria	66
11-4-68	Cyclo-Steph	962 Oscillatoria	592 Scenedesmus	370 Melosira	259
11-12-68	Cyclo-Steph	2,464 Aphanizomenon	1,056 Scenedesmus	220 Melosira	176
11-19-68	Aphanizomenon	418 Melosira	176 Cyclo-Steph	110 Ankistrodesmus	66
11-26-69	Cyclo-Steph	1,980 Scenedesmus	308 Aphanizomenon	176 Tetrastrum	132
12-2-68	Cyclo-Steph	5,724 Scenedesmus	162 Melosira	108 Asterionella	108
12-10-68	Cyclo-Steph	612 Melosira	36 Phacus	18 Dinobryon	18
12-18-68	Cyclo-Steph	522 Ankistrodesmus	126 Scenedesmus	54 Unident.	54
12-24-68	Cyclo-Steph	594 Scenedesmus	22 Unident.	Green Coccolid	11
12-31-68	Cyclo-Steph	1,188 Unident. Diatom Pennate	110 Diatom Pennate Scenedesmus	Synedra	759
				Aphanizomenon	22
					1,342

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-C7-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-4-68	Cyclo-Steph*	Asterionella	Synedra		5,104
3-12-68	Cyclo-Steph	Asterionella	Melosira		5,964
3-18-68	Cyclo-Steph	Asterionella	Dinobryon		104,400
3-26-68	Cyclo-Steph	Asterionella	Melosira	264	30,184
4-2-68	Cyclo-Steph	Asterionella	Nitzschia	450	52,200
4-09-68	Cyclo-Steph	Asterionella	Melosira	160	6,480
4-15-68	Asterionella	Cyclo-Steph	Melosira	110	4,246
4-23-68	Melosira	Cyclo-Steph	Asterionella	143	1,331
4-29-68	Melosira	Cyclo-Steph	Asterionella	132	1,540
5-7-68	Ankistrodesmus	Melosira	Cyclo-Steph	154	2,332
5-14-68	Cyclo-Steph	Melosira	Asterionella	110	1,100
5-21-68	Cyclo-Steph	Scenedesmus	Schroederia	160	1,360
5-27-68	Scenedesmus	Cyclo-Steph	Tetrastrum	132	1,320
6-04-68	Melosira	Cyclo-Steph	Botryococcus	264	4,400
6-11-68	Melosira	Cyclo-Steph	Scenedesmus	160	2,440
6-18-68	Melosira	Cyclo-Steph	Scenedesmus	264	3,212
6-24-68	Scenedesmus	Cyclo-Steph	Aphanizomenon	480	4,840
7-02-68	Scenedesmus	Tetrastrum	Pediastrum		1,060
7-09-68	Scenedesmus	Cyclo-Steph	Oocystis	132	1,474
7-16-68	Cyclo-Steph	Scenedesmus	Oocystis		680
7-23-68	Anacystis	Anacystis	Scenedesmus		3,360
7-30-68	Aphanizomenon	Scenedesmus	Botryococcus	200	1,760
8-06-68	Anacystis	Anacystis	Cyclo-Steph	160	1,760
8-13-68	Anacystis	Gomphospharia	Aphanizomenon	560	7,320
8-19-68	Anacystis	Aphanizomenon	Dictyosphaerium	154	3,564
8-27-68	Aphanizomenon	Anacystis	Phacotus	960	14,680
9-4-68	Aphanizomenon	Cyclo-Steph	Dictyosphaerium	66	1,386
9-10-68	Aphanizomenon	Anacystis	Cyclo-Steph	74	1,998
9-17-68	Aphanizomenon	Oscillatoria	Anacystis	111	1,517
9-24-68	Aphanizomenon	Scenedesmus	Cyclo-Steph	120	1,517
9-30-68	Aphanizomenon	Anacystis	Oscillatoria	280	4,680
* Cyclotella-Stephanodiscus					

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-07-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-8-68	Oscillatoria	Aphanizomenon	Cyclo-Steph	Scenedesmus	1,620
10-14-68	Aphanizomenon	Cyclo-Steph	Pediastrum	Oscillatoria	1,628
10-22-68	Oscillatoria	Aphanizomenon	Cyclo-Steph	Scenedesmus	1,134
10-28-68	Aphanizomenon	Oscillatoria	Cyclo-Steph	Scenedesmus	3,960
11-4-68	Aphanizomenon	Oscillatoria	Scenedesmus	Melosira	2,244
11-19-68	Scenedesmus	Oscillatoria	Cyclo-Steph	Melosira	990
12-3-68	Cyclo-Steph	Scenedesmus	Oedogonium	Ankistrodesmus	462
12-10-68	Cyclo-Steph	Scenedesmus	Ankistrodesmus	Oedogonium	1,710
12-18-68	Cyclo-Steph	Ankistrodesmus	Asterionella	Trachelomonas	1,188
12-24-68	Cyclo-Steph	Ankistrodesmus	Melosira	Scenedesmus	1,404

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-11-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-4-68	Cyclo-Steph*	Asterionella	Melosira	Synedra	5,412
3-12-68	Asterionella	Cyclo-Steph	Melosira		4,422
3-18-68	Cyclo-Steph	Asterionella	Melosira	Nitzschia	6,424
3-26-68	Cyclo-Steph	Asterionella	Melosira	Ankistrodesmus	24,244
4-2-68	Cyclo-Steph	Asterionella	Melosira		8,448
4-9-68	Asterionella	Melosira	Cyclo-Steph	Unident. Green Flagellate	1,595
4-15-68	Cyclo-Steph	Ankistrodesmus	Asterionella	Melosira	1,419
4-23-68	Cyclo-Steph	Ankistrodesmus	Melosira		1,144
4-29-68	Melosira	Ankistrodesmus	Ankistrodesmus		1,782
5-7-68	Cyclo-Steph	Melosira	Ankistrodesmus	Scenedesmus	1,760
5-14-68	Cyclo-Steph	Melosira	Scenedesmus	Oscillatoria	2,398
5-21-68	Aphanizomenon	Scenedesmus	Cyclo-Steph	Oocystis	1,318
5-27-68	Cyclo-Steph	Melosira	Tetrastrum	Scenedesmus	2,398
6-04-68	Aphanizomenon	Scenedesmus	Pediastrum	Unident. Green Coccoid	1,342
6-12-68	Scenedesmus	Phacus	Botryococcus		300
6-18-68	Oocystis	Scenedesmus	Pediastrum	Phacus	748
6-25-68	Cyclo-Steph	Pediastrum	Oocystis		380
7-02-68	Cyclo-Steph	Unident.	Oocystis		540
7-09-68	Cyclo-Steph	Centric Diatom	Scenedesmus		700
7-16-68	Cyclo-Steph	Aphanizomenon	Scenedesmus		143
7-23-68	Cyclo-Steph	Oocystis	Scenedesmus		1,012
7-30-68	Cyclo-Steph	Phacus	Staurastrum		285
8-06-68	Cyclo-Steph	Ceratium	Unident.		187
8-13-68	Cyclo-Steph	Staurastrum	Green coccoid		836
8-20-68	Cyclo-Steph	Aphanizomenon	Scenedesmus		726
8-27-68	Aphanizomenon	Aphanizomenon	Oocystis		1,518
9-4-68	Cyclo-Steph	Cyclo-Steph	Melosira		418
9-10-68	Cyclo-Steph	Aphanizomenon	Anacystis	Pediastrum	50
9-17-68	Cyclo-Steph	Trachelomonas	Phacotus	Peridinium	44
9-24-68	Phacus	Trachelomonas	Staurastrum	Staurastrum	18
		Anacystis	Pediastrum	Cryptomonas	30

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-11-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Aphanizomenon	396			
10-8-68	Cyclo-Steph	88	Oocystis	Mitzzschia	1,188
10-14-68	Cyclo-Steph	396	Peridinium	Oscillatoria	363
10-22-68	Cyclo-Steph	144	Aphanizomenon	Phacatus	720
			Aphanizomenon	Unident.	684
10-28-68	Cyclo-Steph	253	Staurostrum	Flagellates Green	
				Unident.	638
11-5-68	Unident.			Green Coccoid	
	Green Coccoid	144	Phacus	Aphanizomenon	522
11-12-68	Cyclo-Steph	880	Staurostrum		
11-19-68	Cyclo-Steph	144	Scenedesmus	Oscillatoria	2,860
11-26-68	Cyclo-Steph	108	Ankistrodesmus	Ankistrodesmus	666
12-3-68	Cyclo-Steph	132	Schroederia	Oocystis	393
				Trachdomonas	396
12-9-68	Cyclo-Steph	288	Diatoma	Microactinium	558
12-18-68	Cyclo-Steph	306	Phacus	Scenedesmus	340
12-24-68	Cyclo-Steph	108	Unident.	Asterionella	378
			Diatoms Pennate		
12-31-68	Cyclo-Steph	162	Asterionella	Peridinium	522

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station A-12-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-4-68	Cyclo-Steph*	858	Asterionella	154	2,156
3-12-68	Cyclo-Steph	1,716	Asterionella	330	4,334
3-18-68	Cyclo-Steph	1,936	Asterionella	374	3,674
3-26-68	Cyclo-Steph	11,880	Asterionella	176	15,268
4-2-68	Cyclo-Steph	2,354	Asterionella	220	5,302
4-9-68	Asterionella	902	Melosira	154	2,156
			Cyclo-Steph	Green Flagellate	
4-16-68	Peridinium	160	Cyclo-Steph	140	720
4-23-68	Cyclo-Steph	176	Ankistrodesmus	121	792
4-30-68	Melosira	264	Melosira	110	948
5-7-68	Melosira	605	Cyclo-Steph	Asterionella	1,727
5-15-68	Melosira	418	Cyclo-Steph	110	1,650
5-21-68	Melosira	176	Cyclo-Steph	Ankistrodesmus	1,946
5-27-68	Cyclo-Steph	1,628	Scenedesmus	110	2,596
6-12-68	Scenedesmus	60	Phacus	160	200
6-18-68	Scenedesmus	320	Cyclo-Steph	Green Flagellate	1,340
6-25-68	Cyclo-Steph	396	Oocystis	44	704
7-02-68	Cyclo-Steph	200	Unident. Green Flagellate	80	560
7-09-68	Cyclo-Steph	140	Oocystis	40	320
7-16-68	Cyclo-Steph	66	Scenedesmus	22	165
7-23-68	Phacus	528	Scenedesmus	264	1,474
7-30-68	Aphanizomenon	200	Ceratiun	140	720
8-06-68	Cyclo-Steph	180	Ceratiun	20	320
8-20-68	Cyclo-Steph	396	Oocystis	66	836
8-27-68	Anabaena	1,440	Agmenellum	120	2,280
9-4-68	Anacystis	420	Pediastrum	100	1,180
9-10-68	Cyclo-Steph	72	Anacystis	18	180
9-17-68	Cyclo-Steph	180	Staurastrum	36	132
9-24-68	Staurastrum	80	Phacus	40	540

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station A-12-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total Nb./ml
10-1-68	Cyclo-Steph	Staurastrum	90	Fragilaria	60
10-9-68	Staurastrum	Cyclo-Steph	36	Oocystis	18
10-14-68	Cyclo-Steph	Pediastrum	36	Selenastrum	18
10-21-68	Cyclo-Steph	Cosmarium	54	Fragilaria	18
10-29-68	Cyclo-Steph	Staurastrum	55	Aphanizomenon	33
11-5-68	Cyclo-Steph	Phacus	60	Staurastrum	36
11-12-68	Aphanizomenon	Cyclo-Steph	154	Oscillatoria	48
11-19-68	Aphanizomenon	Cyclo-Steph	66	Fragilaria	154
12-3-68	Cyclo-Steph	Scenedesmus	45	Unident.	44
				Green Coccoid	45
12-11-68	Cyclo-Steph	Ankistrodesmus	90	Scenedesmus	72
12-18-68	Cyclo-Steph	Ankistrodesmus	108	Scenedesmus	90
12-23-68	Cyclo-Steph	Ankistrodesmus	108	Scenedesmus	90
12-31-68	Cyclo-Steph	Unident.	48	Unident.	24
		Diatoms Pennate		Green Coccoid	
				Tetrastrum	54
				Oocystis	36
				Tetrastrum	36
				Tetrastrum	12
				Aphanizomenon	60
				Coelastrum	18
				Diatoma	18
				Synedra	18
				Cosmarium	324
				Oocystis	372
				Fragilaria	1,056
				Melosira	352
				Phacus	360
				Tetrastrum	630
				Oocystis	594
				Tetrastrum	486
				Tetrastrum	216

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-14-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.		
3-5-68	Cyclo-Steph*	1,474	Asterionella	1,188	Melosira	748	3,784
3-12-68	Asterionella	3,080	Cyclo-Steph	2,068	Melosira	748	6,908
3-18-68	Cyclo-Steph	1,672	Asterionella	484	Melosira	242	2,838
3-26-68	Cyclo-Steph	1,694	Asterionella	990	Melosira	242	3,410
4-2-68	Cyclo-Steph	1,122	Asterionella	946	Melosira	220	2,552
4-10-68	Asterionella	1,144	Melosira	550	Cyclo-Steph	176	2,530
4-16-68	Asterionella	407	Ankistrodesmus	242	Cyclo-steph	231	1,529
4-23-68	Ankistrodesmus	231	Melosira	176	Cyclo-Steph	99	682
4-30-68	Melosira	319	Cyclo-Steph	286	Ankistrodesmus	275	1,078
5-7-68	Melosira	814	Cyclo-Steph	748	Ankistrodesmus	462	3,168
5-14-68	Melosira	594	Cyclo-Steph	418	Asterionella	132	2,178
5-21-68	Melosira	440	Cyclo-Steph	360	Scenedesmus	260	2,080
5-27-68	Cyclo-Steph	1,760	Nitzschia	264	Fragilaria	176	2,904
6-04-68	Scenedesmus	100	Cyclo-Steph	80	Tetrastrum	60	460
6-12-68	Cyclo-Steph	110	Scenedesmus	88	Phacus	88	550
6-18-68	Oocystis	66	Scenedesmus	66	Tetrastrum	44	264
6-25-68	Cyclo-Steph	682	Oocystis	220	Coelastrum	44	1,232
7-02-68	Oocystis	100	Unident.		Cyclo-Steph	80	500
			Green Flagellate	100			
7-09-68	Cyclo-Steph	75	Phacus	60	Oocystis	30	225
7-16-68	Cyclo-Steph	10	Lagerheimia	10	Oocystis	10	70
7-23-68	Cyclo-Steph	100	Staurastrum	50	Ceratiun	50	310
7-30-68	Ceratiun	180	Cryptomonas	80	Oocystis	40	340
8-06-68	Ceratiun	418	Phacus	66	Staurastrum	44	704
8-14-68	Cyclo-Steph	60	Oocystis	30	Staurastrum	30	255
8-20-68	Anacystis	200	Aphanizomenon	180	Oocystis	60	720
8-27-68	Aphanizomenon	6,740	Anacystis	220	Anabaena	120	7,400
9-5-68	Anacystis	580	Pediastrum	120	Sphaerocystis	60	1,100
9-10-68	Oedogonium	154	Cyclo-Steph	132	Fragilaria	66	638
9-17-68	Pediastrum	72	Cyclo-Steph	72	Oocystis	54	414
9-24-68	Phacus	154	Fragilaria	88	Anacystis	44	704
	* Cyclotella-Stephanodiscus						

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-14-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Staurastrum	Oocystis	Anacystis	Trachelomonas	460
10-8-68	Staurastrum	Cyclo-Steph	Fragilaria	Phacatus	306
10-15-68	Cyclo-Steph	Staurastrum	Phacus	Ankistrodesmus	360
10-22-68	Cyclo-Steph	Staurastrum	Aphanizomenon	Cosmarium	231
10-29-68	Cyclo-Steph	Fragilaria	Phacus	Anacystis	728
11-5-68	Oocystis	Cyclo-Steph	Staurastrum	Unident.	306
11-12-68	Cyclo-Steph	Staurastrum	Pediastrum	Green Coccol	352
11-19-68	Cyclo-Steph	Aphanizomenon	Melosira	Fragilaria	660
11-27-68	Staurastrum	Cyclo-Steph	Unident.	Unident.	384
12-3-68	Cyclo-Steph	Fragilaria	Pennate Diatoms	Pennate Diatoms	286
12-10-68	Cyclo-Steph	Staurastrum	Scenedesmus	Unident.	522
12-17-68	Cyclo-Steph	Scenedesmus	Oedogonium	Green Coccol	468
12-24-68	Cyclo-Steph	Melosira	Pediastrum	Asterionella	324
12-31-68	Cyclo-Steph	Ankistrodesmus	Ankistrodesmus	Cosmarium	18
			Scenedesmus	Phacus	18
				Surirella	522

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-16-06

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-5-68	Cyclo-Steph*	Asterionella	Melosira	176	3,938
3-12-68	Cyclo-Steph	Asterionella	Melosira	506	5,390
3-18-68	Asterionella	Cyclo-Steph	Melosira	770	3,300
3-26-68	Cyclo-Steph	Asterionella	Melosira	440	10,912
4-2-68	Asterionella	Cyclo-Steph	Melosira	550	3,872
4-09-68	Ankistrodesmus	Unident.	Asterionella	160	1,120
		Other Flagellate			
4-16-68	(Data misplaced)				
4-23-68	Ankistrodesmus	Melosira	Asterionella	88	858
4-30-68	Melosira	Cyclo-Steph	Ankistrodesmus	220	1,452
5-5-68	Cyclo-Steph	Melosira	Actinastrum	308	2,750
5-15-68	Cyclo-Steph	Melosira	Actinastrum	308	2,750
5-27-68	Cyclo-Steph	Melosira	Scenedesmus	132	1,749
6-04-68	Cyclo-Steph	Phacus	Ankistrodesmus	110	912
6-12-68	Cyclo-Steph	Phacus	Oocystis	100	860
6-18-68	Oocystis	Phacus	Cyclo-Steph	22	264
6-25-68	Cyclo-Steph	Oocystis	Schroederia	60	800
7-02-68	Cyclo-Steph	Oocystis	Phacus	80	540
7-09-68	Cyclo-Steph	Melosira	Phacus	11	66
7-23-68	Cyclo-Steph	Staurastrum	Staurastrum	50	360
7-30-68	Cryptomonas	Ceratium	Phacus	240	1,000
8-06-68	Ceratium	Cryptomonas	Ankistrodesmus	44	572
8-20-68	Aphanizomenon	Oocystis	Staurastrum	60	700
8-27-68	Aphanizomenon	Anacystis	Phacotus	200	5,840
9-5-68	Anacystis	Charecium	Staurastrum	80	2,240
9-10-68	Anacystis	Anabaena	Oedogonium	22	66
9-18-68	Oedogonium	Cyclo-Steph	Fragillaria	90	486

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)
DOMINANT PHYTOPLANKTON

Station B-16-06

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Staurastrum	100	60	Cryptomonas	40
10-8-68	Staurastrum	99	54	Oocystis	18
10-15-68	Staurastrum	153	36	Unident.	27
				Green Coccolid	
10-29-68	Staurastrum	242	242	Oscillatoria	110
11-5-68	Staurastrum	72	36	Phacus	36
11-20-68	Cyclo-Steph	204	72	Unident.	48
				Diatoms Pennate	
12-3-68	Cyclo-Steph	264	44	Lagerheimia	22
12-17-68	Cyclo-Steph	264	36	Staurastrum	18

DOMINANT PHYTOPLANKTON

Station B-16-05

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-5-68	Cyclo-Steph*	4, 972	Asterionella	3, 784	10, 230
3-12-68	Asterionella	2, 156	Cyclo-Steph	1, 804	4, 884
3-18-68	Asterionella	1, 342	Cyclo-Steph	990	3, 432
3-26-68	Asterionella	2, 288	Cyclo-Steph	1, 980	5, 368
4-2-68	Asterionella	3, 036	Cyclo-Steph	2, 288	6, 688
4-9-68	Asterionella	280	Melosira	240	1, 400
4-16-68	Cyclo-Steph	286	Melosira	264	1, 584
4-23-68	Ankistrodesmus	374	Melosira	264	1, 009
4-30-68	Cyclo-Steph	594	Melosira	330	1, 714
5-02-68	Melosira	638	Unident. Green Filament	176	1, 716
5-07-68	Melosira	1, 012	Cyclo-Steph	902	3, 124
5-14-68	Melosira	1, 232	Cyclo-Steph	748	4, 158
5-27-68	Cyclo-Steph	968	Melosira	242	1, 606
6-04-68	Phacus	792	Cyclo-Steph	110	1, 408
6-12-68	Phacus	440	Cyclo-Steph	132	836
6-18-68	Oocystis	110	Tetrastrum	66	506
6-25-68	Cyclo-Steph	176	Oocystis	110	462
7-02-68	Cyclo-Steph	154	Phacus	66	440
7-09-68	Oocystis	44	Phacus	33	143
7-16-68	Phacus	55	Cyclo-Steph	22	165
7-23-68	Cyclo-Steph	45	Staurastrum	30	210
7-30-68	Ceratium	140	Phacus	60	370
8-07-68	Anabaena	60	Ceratium	60	420
8-13-68	Cyclo-Steph	40	Anacystis	40	200
8-20-68	Aphanizomenon	264	Anacystis	110	704
8-27-68	Aphanizomenon	1, 680	Anacystis	640	2, 840
9-5-68	Anacystis	1, 240	Pediastrum	120	1, 880
9-10-68	Fragilaria	126	Staurastrum	54	36
9-18-68	Fragilaria	144	Cyclo-Steph	126	522
9-24-68	Staurastrum	120	Phacus	60	400

* *Cyclotella-Stephanodiscus*

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-16-05

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Fragilaria	140 Staurostrum	100 Trachelomonas	80 Unident. Pennate Diatom	720
10-15-68	Cyclo-Steph	36 Oocystis	36 Pandorina	18 Cosmarium	198
10-22-68	Staurostrum	154 Cyclo-Steph	88 Unident. Green Coccolid	44 Aphanizomenon	418
10-29-68	Cyclo-Steph	108 Staurostrum	84 Unident. Diatom Pennate	24 Oocystis	360
11-5-68	Cyclo-Steph	90 Unident. Green Coccolid	90 Phacus	54 Aphanizomenon	468
11-13-68	Cyclo-Steph	228 Staurostrum	84 Fragilaria	36 Pedicellum	576
11-20-68	Cyclo-Steph	240 Staurostrum	84 Pedicellum	72 Aphanizomenon	792
11-26-68	Cyclo-Steph	108 Unident. Diatom Pennate	36 Staurostrum	18 Scenedesmus	270
12-3-68	Cyclo-Steph	165 Scenedesmus	60 Tetrastrum	45 Fragilaria	465
12-10-68	Cyclo-Steph	162 Ankistrodesmus	54 Scenedesmus	36 Asterionella	502
12-17-68	Cyclo-Steph	360 Fragilaria	108 Asterionella	54 Scenedesmus	816
12-24-68	No sample				
12-31-68	Cyclo-Steph	162 Asterionella	126 Ankistrodesmus	18 Synedra	486

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-18-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-5-68	Asterionella	Melosira	Cyclo-Steph*		2,860
3-12-68	Asterionella	Cyclo-Steph	Melosira	Ankistrodesmus	2,948
3-19-68	Cyclo-Steph	Asterionella	Melosira	Arkistrodesmus	4,730
3-26-68	Asterionella	Cyclo-Steph	Melosira	Scenedesmus	3,146
4-3-68	Asterionella	Cyclo-Steph	Melosira	Ankistrodesmus	2,904
4-09-68	Asterionella	Melosira	Ankistrodesmus	Cyclo-Steph	2,080
4-16-68	Asterionella	Melosira	Ankistrodesmus	Cyclo-Steph	1,430
4-23-68	Ankistrodesmus	Cyclo-Steph	Melosira	Asterionella	946
4-30-68	Melosira	Cyclo-Steph	Asterionella		1,032
5-8-68	Cyclo-Steph	Ankistrodesmus	Melosira	Asterionella	3,916
5-15-68	Cyclo-Steph	Melosira	Actinastrum	Scenedesmus	1,848
5-21-68	Cyclo-Steph	Scenedesmus	Melosira		1,210
5-27-68	Asterionella	Cyclo-Steph	Melosira		946
6-04-68	Phacus	Cyclo-Steph	Oocystis		600
6-12-68	Cyclo-Steph	Oocystis	Phacus		924
6-18-68	Melosira	Pediastrum	Scenedesmus		132
6-25-68	Cyclo-Steph	Oocystis	Ankistrodesmus		726
7-02-68	Cyclo-Steph	Oocystis	Phacus		660
7-09-68	Phacus	Unident. Green Coccoid Cryptomonas Cyclo-Steph	Cyclo-Steph		198
7-16-68	Phacus		Oocystis		465
7-23-68	Unident. Green Filament		Oocystis		660
7-30-68	Ceratiium	Cryptomonas Phacus	Anacystis Ceratiium		380
8-07-68	Unident. Green Filament				352
8-13-68	Anacystis	Phacus	Anabaena		340
8-20-68	Anabaena	Anacystis	Aphanizomenon	Phacus	1,500
8-27-68	Aphanizomenon	Anacystis	Pediastrum		4,070
9-5-68	Anacystis	Oedogonium	Pediastrum	Oocystis	1,920
9-12-68	Cyclo-Steph	Pediastrum	Cosmarium	Fragilaria	414
9-18-68	Fragilaria	Pediastrum	Staurostrum	Oocystis	198

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-18-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-2-68	Cryptomonas	75 Staurostrum	75 Oocystis	45 Oedogonium	450
10-8-68	Fragilaria	72 Staurostrum	54 Trachelomonas	45 Cyclo-Steph	306
10-15-68	Staurostrum	108 Cyclo-Steph	54 Scenedesmus	36 Schroederia	378
10-22-68	Cyclo-Steph	90 Staurostrum	81 Phacus	27 Unident.	351
10-29-68	Staurostrum	242 Cyclo-Steph	121 Fragilaria	44 Green Coccoïd	616
11-5-68	Staurostrum	66 Trachelomonas	44 Unident.	22 Oocystis	242
11-12-68	Cyclo-Steph	135 Staurostrum	99 Flagellates Green	54 Unident.	360
11-20-68	Cyclo-Steph	216 Staurostrum	99 Green Coccoïd	72 Diatoms Pennate	792
11-26-68	Cyclo-Steph	120 Unident.	198 Aphanizomenon	24 Melosira	408
12-4-68	Cyclo-Steph	150 Green Coccoïd	108 Oscillatoria	30 Phacus	495
12-17-68	Cyclo-Steph	342 Scenedesmus	90 Unident.	54 Fragilaria	702
12-24-68	Cyclo-Steph	144 Melosira	90 Green Coccoïd	18 Fragilaria	396
12-31-68	Cyclo-Steph	108 Ankiistrodesmus	126 Ankiistrodesmus	18 Gomphonema	306
			54 Unident.		
			Green Coccoïd		

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-20-01

C.R.A.

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.				
3-5-68	Asterionella	1,628	Cyclo-Steph*	1,474	Melosira	528	Ankistrodesmus	110	4,114
3-12-68	Asterionella	1,474	Cyclo-Steph	1,166	Melosira	1,034			4,114
3-19-68	Asterionella	1,980	Cyclo-Steph	1,474	Melosira	1,078			4,972
3-26-68	Asterionella	1,566	Melosira	594	Cyclo-Steph	418			2,860
4-3-68	Asterionella	880	Melosira	660	Cyclo-Steph	352	Euglena	176	2,508
4-9-68	Melosira	320	Ankistrodesmus	200	Peridinium	180	Cyclo-Steph	140	1,120
4-16-68	Melosira	737	Asterionella	308	Cyclo-Steph	198	Ankistrodesmus	187	1,859
4-23-68	Melosira	473	Ankistrodesmus	363	Cyclo-Steph	143			1,243
4-30-68	Melosira	572	Ankistrodesmus	396	Cyclo-Steph	286			1,606
5-7-68	Cyclo-Steph	726	Ankistrodesmus	550	Melosira	440	Asterionella	110	2,310
5-15-68	Melosira	517	Cyclo-Steph	341	Ankistrodesmus	121			1,320
5-22-68	Melosira	132	Phacus	88	Scenedesmus	44			462
5-27-68	Cyclo-Steph	451	Melosira	55	Ankistrodesmus	33			748
6-05-68	Cyclo-Steph	120	Schroederia	40	Ankistrodesmus	20			320
6-12-68	Cyclo-Steph	80	Melosira	20	Fragilaria	20			260
6-19-68	Cyclo-Steph	80	Scenedesmus	40	Aphanizomenon	20			180
6-26-68	Cyclo-Steph	760	Melosira	180	Staurostrum	40			1,160
7-10-68	Cyclo-Steph	99	Asterionella	22	Oocystis	22			198
7-16-68	Cyclo-Steph	105	Unident.	75	Cryptomonas	60			360
			Green Flagellate						
7-24-68	Unident.	50	Melosira	30	Cyclo-Steph	20			160
	Green Filament.								
7-30-68	Phacus	110	Ceratium	66	Fragilaria	66			374
8-08-68	Cyclo-Steph	60	Ceratium	60	Unident.	60			360
					Green Filament.				
8-14-68	Gleocystis	30	Anabaena	20	Oocystis	10			140
8-22-68	Oocystis	40	Pediastrum	40	Phacus	40			220
8-27-68	Aphanizomenon	308	Oocystis	66	Anacystis	66			770
9-5-68	Phacus	40	Oocystis	20	Oedogonium	20	Euglena	20	150
9-10-68	Phacus	88	Fragilaria	44	Unidentified	22			154
9-18-68	Cyclo-Steph	54	Trachelomonas	36	Phacus	18	Coelastrum	18	144

* Cyclotella-Stephanodiscus

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)
DOMINANT PHYTOPLANKTON

Station C-20-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-2-68	Staurastrum	70 Trachelomonas	30 Cyclo-Steph	20 Cosmarium	20
10-8-68	Fragilaria	90 Staurastrum	54 Cyclo-Steph	36 Oocystis	18
10-15-68	Staurastrum	108 Cyclo-Steph	36 Schroederia	36 Cosmarium	18
10-22-68	Phacus	84 Staurastrum	70 Unident.	70 Unident.	70
			Green Coccolid	Flagellates Green	490
10-29-68	Staurastrum	360 Cyclo-Steph	288 Unident.	216 Pediasstrum	72
			Diatom Pennate		1,278
11-5-68	Cyclo-Steph	48 Staurastrum	48 Unident.	41 Phacus	36
			Green Coccolid		300
11-20-68	Cyclo-Steph	814 Fragilaria	666 Staurastrum	629 Pediasstrum	333
11-26-68	Cyclo-Steph	66 Fragilaria	44 Phacus	44 Pediasstrum	22
12-4-68	Cyclo-Steph	66 Phacus	55 Scenedesmus	44 Unident.	33
				Diatom Pennate	
12-10-68	Melosira	162 Cyclo-Steph	144 Staurastrum	54 Tetradonon	36
12-17-68	Cyclo-Steph	396 Melosira	90 Odegonium	90 Fragilaria	54
12-24-68	Cyclo-Steph	220 Trachelomonas	66 Melosira	44 Pediasstrum	44
					594

TABLE 3 (Continued)

DOMINANT PHYTOPLANKTON

Station C-21-03

DIVERSA

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-6-68	Cyclo-Steph*	Asterionella	Melosira		2,112
3-12-68	Asterionella	Cyclo-Steph	Melosira		3,784
3-19-68	Cyclo-Steph	Asterionella	Melosira		2,266
3-26-68	Asterionella	Melosira	Cyclo-Steph		3,828
4-3-68	Asterionella	Melosira	Cyclo-Steph		2,640
4-10-68	Melosira	Ankistrodesmus	Cyclo-Steph		1,078
4-16-68	Ankistrodesmus	Cyclo-Steph	Melosira		1,080
4-					
4-30-68	Melosira	Cyclo-Steph	Ankistrodesmus	Asterionella	1,408
5-7-68	Cyclo-Steph	Melosira	Ankistrodesmus	Asterionella	2,750
5-15-68	Cyclo-Steph	Melosira	Ankistrodesmus	Actinastrum	1,914
5-21-68	Melosira	Cyclo-Steph	Phacus		770
5-29-68	Cyclo-Steph	Melosira	Unident.	Lagerheimia	1,430
6-11-68	Phacus	Cyclo-Steph	Green Flagellate		
6-12-68	Cyclo-Steph	Scenedesmus	Cryptomonas		462
6-18-68	Cyclo-Steph	Scenedesmus	Phacus		286
6-26-68	Cyclo-Steph	Melosira	Oocystis		210
7-02-68	Phacus	Cryptomonas	Phacus		1,254
7-10-68	Cryptomonas	Oocystis	Unident.		840
7-16-68	Unident.	Cryptomonas	Green Flagellate		
7-24-68	Oocystis	Cryptomonas	Staurostrum		100
7-30-68	Oocystis	Cryptomonas	Phacus		396
8-09-68	Staurostrum	Unident.	Staurostrum		200
8-20-68	Anabaena	Green Flagellate	Trachelomonas		135
8-21-68	Anabaena	Cosmarium	Cryptomonas		140
8-28-68	Anacystis	Lagerheimia	Pediastrum		480
9-5-68	Aphanizomenon	Oocystis	Unident.		380
9-18-68	Staurostrum	Aphanizomenon	Green Cocoid		231
9-24-68	Staurostrum	Staurostrum	Oocystis	Oedogonium	420
		Cyclo-Steph	Cyclo-Steph	Phacus	306
		Trachelomonas	Oocystis	Anacystis	374
			Cyclo-Steph		22

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-21-03

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Staurastrum	80	20	Cyclo-Steph	10
10-8-68	Cyclo-Steph	72	36	Anacystis	18
10-15-68	Trachelomonas	110	66	Anacystis	44
10-22-68	Cyclo-Steph	90	63	Anacystis	18
10-30-68	Fragilaria	110	88	Phacus	44
11-5-68	Cyclo-Steph	81	27	Phacus	27
11-12-68	Cyclo-Steph	374	242	Pediastrum	132
11-19-68	Cyclo-Steph	187	88	Fragilaria	33
12-3-68	Cyclo-Steph	66	22	Fragilaria	22
12-10-68	Cyclo-Steph	418	132	Fragilaria	66
12-18-68	Cyclo-Steph	594	352	Phacus	110
					1,628

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-21-04 3442/1A					Total No./Ml.	
Date	Most Abundant	2nd Most	3rd Most	4th Most		
3-6-68	Cyclo-Steph*	1,606	Asterionella	242	Melosira	88
3-19-68	Melosira	682	Asterionella	594	Cyclo-Steph	528
3-26-68	Asterionella	924	Melosira	814	Cyclo-Steph	660
4-3-68	Melosira	924	Asterionella	770	Cyclo-Steph	506
4-9-68	Melosira	1,034	Asterionella	440	Ankistrodesmus	308
4-16-68	Ankistrodesmus	540	Cyclo-Steph	320	Melosira	120
4-23-68	Ankistrodesmus	286	Melosira	242	Peridinium	154
4-30-68	Ankistrodesmus	836	Cyclo-Steph	418	Melosira	330
5-7-68	Ankistrodesmus	748	Cyclo-Steph	748	Melosira	396
5-15-68	Cyclo-Steph	429	Melosira	253	Ankistrodesmus	176
5-21-68	Cryptomonas	264	Phacus	196	Melosira	154
5-29-68	Cyclo-Steph	528	Scenedesmus	198	Melosira	176
6-12-68	Cyclo-Steph	30	Phacus	30	Schroederia	20
6-18-68	Phacus	140	Cryptomonas	80	Schroederia	300
6-25-68	Unident.	55	Oocystis	33	Coelastrum	154
7-2-68	Green Flagellate	60	Phacus	20	Coelastrum	120
7-10-68	Cryptomonas	420	Phacus	280	Characium	1,040
7-16-68	Cryptomonas	55	Cyclo-Steph	11	Melosira	110
7-23-68	Cryptomonas	500	Unident.	200	Anacystis	880
7-30-68	Ceratiun	75	Green Filament.	60	Ceratiun	315
8-9-68	Ceratiun	110	Unident.	80	Cryptomonas	330
8-13-68	Unident. Filament.	60	Green Filament.	45	Anabaena	270
8-21-68	Anabaena	60	Unident. Filament.	20	Oocystis	140
8-28-68	Pediastrum	242	Phacus	22	Cosmarium	330
9-5-68	Anacystis	40	Anacystis	40	Aphanizomenon	220
9-10-68	Aphanizomenon	160	Aphanizomenon	60	Trachelomonas	480
9-17-68	Staurastrum	86	Oocystis	18	Phacus	198
9-24-68	Staurastrum	104	Cyclo-Steph	52	Anacystis	364
		240	Oocystis	20	Phacotus	370

Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-21-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Staurastrum	66	44	33	242
10-8-68	Staurastrum	60	24	24	204
10-15-68	Staurastrum	77	55	33	341
10-22-68	Staurastrum	90	18	18	126
10-30-68	Staurastrum	88	77	77	462
11-5-68	Cyclo-Steph	44	44	22	143
11-19-68	Cyclo-Steph	220	132	88	770
11-26-68	Fragilaria	36	27	27	180
12-3-68	Cyclo-Steph	77	77	22	242
12-10-68	Cyclo-Steph	270	108	18	432
12-18-68	Cyclo-Steph	270	126	18	594
12-24-68	Cyclo-Steph	572	220	176	1,364

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station D-23-01
August 1964

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-6-68	Cyclo-Steph*	Asterionella	Ankistrodesmus		1,496
3-12-68	Cyclo-Steph	Asterionella	Ankistrodesmus		1,452
3-19-68	Cyclo-Steph	Asterionella	Melosira	Ankistrodesmus	2,794
3-26-68	Cyclo-Steph	Melosira	Asterionella	Ankistrodesmus	2,288
4-2-68	Asterionella	Cyclo-Steph	Melosira		2,222
4-10-68	Melosira	Unident.	Peridinium		780
4-16-68	Melosira	Green Flagellate			
4-23-68	Ankistrodesmus	Asterionella	Ankistrodesmus	Tabellaria	2,068
4-30-68	Melosira	Melosira	Cyclo-Steph	Asterionella	1,122
5-6-68	Ankistrodesmus	Ankistrodesmus	Cyclo-Steph	Peridinium	1,386
5-15-68	Cyclo-Steph	Cyclo-Steph	Melosira	Scenedesmus	2,046
5-21-68	Melosira	Melosira	Ankistrodesmus		1,485
5-29-68	Cyclo-Steph	Cyclo-Steph	Tetrasstrum		1,140
6-05-68	Cyclo-Steph	Melosira	Unident.		1,188
6-11-68	Cyclo-Steph	Cosmarium	Green Flagellate		99
6-18-68	Oocystis	Melosira	Oocystis		110
6-25-68	Scenedesmus	Unident. Diatom	Diatoms		110
7-10-68	Unident.	Pennate Diatom	Scenedesmus		110
7-16-68	Green Filament.	Oocystis	Cyclo-Steph		110
7-23-68	Green Filament.	Oocystis	Cyclo-Steph		130
7-30-68	Unident.	Oocystis	Oocystis		250
8-07-68	Cryptomonas	Phacus	Sphaerocystis		330
8-13-68	Unident.	Oocystis	Cerastium		320
8-21-68	Cosmarium	Oocystis	Cyclo-Steph		230
8-28-68	Lagerheimia	Oocystis	Staurestrum		150
9-5-68	Fragilaria	Cerastium	Staurestrum		150
9-10-68	Oocystis	Cosmarium	Oocystis		255
9-17-68	Staurestrum	Anacystis	Cosmarium	Pediastrum	380
9-24-68	Anacystis	Cerastium	Cyclo-Steph	Pediastrum	180
	Staurestrum	Phacus	Ankistrodesmus	Staurestrum	396
	Cyclotella-Stephanodiscus	Cyclo-Steph	Oocystis	Cosmarium	198

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station D-23-01					
Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml.
10-1-68	Staurostrum	Fragilaria	Ankistrodesmus	Phacus	176
10-9-68	Cyclo-Steph	Gonphonema	Tabellaria	Staurostrum	156
10-15-68	Staurostrum	Cyclo-Steph	Fragilaria	Oocystis	228
10-28-68	Cyclo-Steph	Fragilaria	Staurostrum	Schroederia	414
10-29-68	Staurostrum	Cyclo-Steph	Fragilaria	Melosira	459
11-5-68	Cyclo-Steph	Staurostrum	Ankistrodesmus	Cosmarium	165
11-19-68	Staurostrum	Cyclo-Steph	Ankistrodesmus	Oscillatoria	396
11-26-68	Cyclo-Steph	Staurostrum	Oocystis	Melosira	288
12-3-68	Cyclo-Steph	Fragilaria	Ankistrodesmus	Unident.	198
12-12-68	Cyclo-Steph	Staurostrum	Fragilaria	Diatom Pennate	
12-18-68	Cyclo-Steph	Staurostrum	Ankistrodesmus	Pediastrum	270
12-24-68	Cyclo-Steph	Melosira	Ankistrodesmus	Melosira	414
12-31-68	Cyclo-Steph	Staurostrum	Unident.	Scenedesmus	252
			Green Coccolid	Pediastrum	240

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station E-25-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
4-17-68	Melosira	260 Ankistrodesmus	200 Cyclo-Steph*		940
4-29-68	Cyclo-Steph	319 Ankistrodesmus	319 Melosira		1,089
5-16-68	Melosira	660 Cyclo-Steph	550 Ankistrodesmus	154 Tetrastrum	2,288
5-27-68	Cyclo-Steph	396 Melosira	242 Asterionella	132 Scenedesmus	1,254
6-10-68	Phacus	200 Characium	100 Cyclo-Steph	20	360
6-24-68	Cyclo-Steph	110 Oocystis	44 Characium	44	462
7-08-68	Phacus	176 Oocystis	66 Cyclo-Steph	66	396
7-22-68	Phacus	120 Oocystis	45 Cyclo-Steph	45	390
8-07-68	Schroederia	100 Unident.	60 Phacus	60	520
8-20-68	Anabaena	Coccol Green			
9-16-68	Staurostrum	176 Pedicellaria	110 Cosmarium	110	968
10-1-68	Cyclo-Steph	90 Fragilaria	72 Cyclo-Steph	26	390
10-16-68	Phacus	120 Staurostrum	100 Ankistrodesmus	36	620
10-28-68	Staurostrum	108 Staurostrum	54 Cyclo-Steph	18	324
		72 Cyclo-Steph	54 Fragilaria	36	234
11-6-68	Unident.	111 Cyclo-Steph	37 Scenedesmus	37	370
	Green Coccol				
11-18-68	Cyclo-Steph	110 Staurostrum			
12-18-68	Cyclo-Steph	90 Melosira	22 Melosira	11	165
			36 Scenedesmus	18	234

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station E-26-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-6-68	Cyclo-Steph*	Asterionella	154	Unidentified	66
3-12-68	Cyclo-Steph	Melosira	560	Asterionella	220
3-19-68	Cyclo-Steph	Asterionella	418	Ankistrodesmus	286
3-26-68	Cyclo-Steph	Ankistrodesmus	264	Asterionella	220
4-2-68	Cyclo-Steph	Asterionella	704	Melosira	352
4-9-68	Asterionella	Melosira	1,012	Cyclo-Steph	220
4-16-68	Ankistrodesmus	Melosira	440	Cyclo-Steph	176
4-23-68	Melosira	Ankistrodesmus	385	Peridinium	242
4-30-68	Melosira	Ankistrodesmus	352	Cyclo-Steph	396
5-7-68	Cyclo-Steph	Ankistrodesmus	528	Melosira	242
5-14-68	Cyclo-Steph	Melosira	352	Ankistrodesmus	140
5-21-68	Cyclo-Steph	Ankistrodesmus	400	Melosira	264
5-29-68	Cyclo-Steph	Melosira	418	Asterionella	44
6-04-68	Cyclo-Steph	Phacus	88	Cryptomonas	22
6-11-68	Cyclo-Steph	Phacus	44	Ankistrodesmus	22
6-19-68	Unident.	Trachelomonas	22	Cyclo-Steph	396
6-25-68	Green Flagellate	Ankistrodesmus	22	Pediastrum	560
7-02-68	Cyclo-Steph	Characium	80	Phacus	400
7-10-68	Phacus	Oocystis	60	Characium	770
7-16-68	Unidentified	Cryptomonas	132	Phacus	320
7-23-68	Green Filament.	Lagerheimia	30	Staurastrum	540
7-30-68	Cyclo-Steph	Trachelomonas	60	Unidentified	280
8-09-68	Phacus	Unidentified	60	Penate Diatom	418
8-20-68	Pediastrum	Filament, Green	110	Oocystis	1,980
8-27-68	Oocystis	Pediastrum	240	Anabaena	520
9-3-68	Anacystis	Aphanizomenon	80	Anabaena	2,040
9-4-68	Anacystis	Pediastrum	240	Aphanizomenon	18
9-10-68	Anacystis	Aphanizomenon	36	Peridinium	18
9-17-68	Scenedesmus	Fragilaria	36	Oocystis	180
9-25-68	Staurastrum	Pediastrum	360	Aphanizomenon	100
	Anacystis	Staurastrum	360	Phacotus	1,340

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)
DOMINANT PHYTOPLANKTON

Station E-26-01					
Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml.
10-1-68	Staurastrum	400	Fragilaria	40	Anabaena 40
10-9-68	Staurastrum	176	Cyclo-Steph	22	Odegonium 22
10-15-68	Phacus	144	Staurastrum	54	Anacystis 54
10-23-68	Staurastrum	216	Cyclo-Steph	36	Ankistrodesmus 36
10-29-68	Staurastrum	99	Melosira	22	Ankistrodesmus 22
11-5-68	Cyclo-Steph	75	Unident.	30	Unident. 30
			Flagellates Green		Green Coccoid 14
11-12-68	Cyclo-Steph	84	Staurastrum	23	Closteriopsis 23
11-19-68	Cyclo-Steph	121	Staurastrum	22	Oocystis 22
11-26-68	Cyclo-Steph	88	Staurastrum	66	Aphanizomenon 44
12-3-68	Cyclo-Steph	117	Aphanizomenon	18	Unident. 18
			Staurastrum		Diatom Pennate 36
12-10-68	Cyclo-Steph	198	Staurastrum	36	Scenedesmus 36
12-18-68	Cyclo-Steph	72	Scenedesmus	54	198
12-24-68	Cyclo-Steph	198	Melosira	110	Fragilaria 88
12-31-68	Melosira	99	Cyclo-Steph	55	Unident. 33
					Diatom Pennate

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station F-27-18

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-6-68	Cyclo-Steph*	Asterionella	Ankistrodesmus		4,796
3-13-68	Cyclo-Steph	Ankistrodesmus	Asterionella		5,874
3-19-68	Cyclo-Steph	Asterionella	Oocystis		6,424
3-26-68	Cyclo-Steph	Asterionella	Ankistrodesmus		7,392
4-2-68	Cyclo-Steph	Ankistrodesmus	Asterionella		21,433
4-10-68	Melosira	Ankistrodesmus	Asterionella	Anki trodesmus	2,376
4-16-68	Ankistrodesmus	Asterionella	Cyclo-Steph		1,460
4-24-68	Melosira	Melosira	Cyclo-Steph	Ankistrodesmus	2,288
4-30-68	Cyclo-Steph	Cyclo-Steph	Asterionella	Asterionella	1,540
5-7-68	Cyclo-Steph	Ankistrodesmus	Melosira		1,716
5-14-68	Cyclo-Steph	Ankistrodesmus	Melosira	Asterionella	1,496
5-18-68	Cyclo-Steph	Melosira	Scenedesmus		
5-29-68	Cyclo-Steph	Melosira	Scenedesmus	Ankistrodesmus	2,046
6-05-68	Cyclo-Steph	Phacus	Cryptomonas		210
6-11-68	Phacus	Cyclo-Steph	Unidentified Green Flagellate		380
6-19-68	Oocystis	Phacus	Unidentified Green Flagellate		60
6-25-68	Phacus	Cryptomonas	Green Flagellate		
7-02-68	Cyclo-Steph	Ankistrodesmus	Characium		1,080
7-10-68	Cyclo-Steph	Phacus	Phacus		960
7-16-68	Phacu	Cryptomonas	Staurostrum		340
7-23-68	Phacus	Unidentified Green Filament.	Oocystis	Ankistrodesmus	1,078
7-30-68	Phacus	Ceratium	Oocystis		462
8-09-68	Phacus	Pediastrum	Cyclo-Steph		420
8-16-68	Aphanizomenon	Anabaena	Unidentified Green Flagellate		377
8-20-68	Pediastrum	Oocystis	Oocystis		660
8-27-68	Anacystis	Aphanizomenon	Oocystis		924
9-3-68	Anacystis	Ankistrodesmus	Pediastrum	Tabellaria	820
9-10-68	Staurostrum	Fragilaria	Pediastrum		2,360
9-17-68	Oocystis	Staurostrum	Characium	Trachelomonas	126
9-25-68	Phacotus	Staurostrum	Anacystis	Oocystis	140
					540

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station F-27-18

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Staurastrum	375	75		
10-9-68	Staurastrum	36	18	Oocystis	45
10-15-68	Staurastrum	63	45	Phacatus	18
10-22-68	Staurastrum	224	84	Trachelomonas	27
			Unident.	Phacus	56
10-29-68	Staurastrum	66	66		
11-5-68	Phacus	77	55	Aphanizomenon	33
			Unident.	Cyclo-Steph	22
11-13-68	Cyclo-Steph	90	54		
11-19-68	Cyclo-Steph	108	36	Ankistrodesmus	36
11-26-68	Cyclo-Steph	144	60	Staurastrum	18
			Unident.	Oscillatoria	36
12-3-68	Cyclo-Steph	132	22		
12-10-68	Cyclo-Steph	162	36	Asterionella	11
12-18-68	Cyclo-Steph	126	54	Pediastrum	18
12-24-68	Cyclo-Steph	151	88	Staurastrum	18
12-31-68	Cyclo-Steph	81	36	Synedra	22
			Unident.	Scenedesmus	506
			Diatom Pennate		234

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station G-30-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
5-7-68	Cyclo-Steph*	Asterionella	Melosira	Ankistrodesmus	110
3-12-68	Cyclo-Steph	Asterionella	Ankistrodesmus		3,058
3-19-68	Cyclo-Steph	Asterionella	Ankistrodesmus		4,796
3-26-68	Cyclo-Steph	Asterionella	Ankistrodesmus		13,926
4-2-68	Asterionella	Fragilaria	Ankistrodesmus		18,172
4-9-68	Cyclo-Steph	Ankistrodesmus	Ankistrodesmus		1,100
4-16-68	Melosira	Diatoma	Melosira	Asterionella	1,760
4-26-68	Melosira	Ankistrodesmus	Trachelomonas	Ankistrodesmus	1,474
4-30-68	Melosira	Ankistrodesmus	Cyclo-Steph	Asterionella	1,408
5-7-68	Ankistrodesmus	Cyclo-Steph	Cyclo-Steph		1,452
5-14-68	Melosira	Cyclo-Steph	Melosira		1,430
5-21-68	Melosira	Cyclo-Steph	Ankistrodesmus		1,342
5-29-68	Cyclo-Steph	Melosira	Unidentified Pennate Diatom		480
6-4-68	Melosira	Cyclo-Steph	Scenedesmus	Asterionella	1,914
6-11-68	Cyclo-Steph	Melosira	Scenedesmus		360
6-18-68	Unidentified Green Flagellate	Cyclo-Steph	Asterionella		220
6-25-68	Characium	Cyclo-Steph	Melosira		90
7-2-68	Cyclo-Steph	Ankistrodesmus	Melosira		640
7-10-68	Not Preserved		Oocystis		920
7-16-68	Unidentified Filament. Green	Cryptomonas	Schroederia		980
7-23-68	Cyclo-Steph	Unidentified Filament. Green	Characium	Characium	100
7-30-68	Unidentified Filament. Green	Oocystis	Cyclo-Steph		440
8-9-68	Oocystis	Phacus	Sphaerocystis		242
8-13-68	Melosira	Fragilaria	Oocystis		150
8-20-68	Pediastrum	Anacystis	Cyclo-Steph		132
8-27-68	Anacystis	Aphanizomenon	Schroederia		506
9-3-68	Oocystis	Aphanizomenon	Pediastrum		2,080
9-10-68	Fragilaria	Trachelomonas	Oocystis	Sphaerocystis	80
9-17-68	Staurostrum	Oocystis	Cosmarium	Staurostrum	22
9-24-68	Staurostrum	Phacotus	Oocystis	Peridinium	36
				Anacystis	80
					450

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station G-30-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml				
10-1-68	Staurastrum	396	Trachelomonas	88	Fragilaria	66	Cosmarium	44	924
10-8-68	Staurastrum	121	Cyclo-Steph	11	Tabellaria	11	Anabaena	11	198
10-15-68	Staurastrum	54	Cyclo-Steph	27	Schroederia	27	Oedogonium	27	153
10-22-68	Staurastrum	176	Ankistrodesmus	66	Oocystis	66	Unident.	44	528
10-29-68	Staurastrum	198	Fragilaria	90	Cyclo-Steph	54	Diatom Pennate	18	468
11-5-68	Cyclo-Steph	36	Oocystis	27	Cosmarium	18	Melosira	18	171
11-12-68	Cyclo-Steph	90	Staurastrum	36	Staurastrum	54	Staurastrum	18	126
11-19-68	Cyclo-Steph	144	Staurastrum	54	Fragilaria	54	Unident.	54	450
11-26-68	Cyclo-Steph	135	Melosira	30	Fragilaria	15	Diatom Pennate	15	225
12-3-68	Cyclo-Steph	110	Unident.	44	Staurastrum	33	Melosira	22	264
12-10-68	Cyclo-Steph	72	Diatom Pennate	18	Scenedesmus	18	Aphanizomenon	18	126
12-18-68	Cyclo-Steph	286	Melosira	110	Staurastrum	66	Diatoma	44	682
12-24-68	Cyclo-Steph	44	Unident.	44	Staurastrum	44	Melosira	22	231
			Diatom Pennate						

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station G-33-03

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-7-68	Cyclo-Steph*	2,046	Asterionella		2,420
3-12-68	Cyclo-Steph	3,674	Asterionella		4,158
3-					
3-26-68	Cyclo-Steph	4,334	Asterionella		4,774
4-2-68	Cyclo-Steph	10,076	Asterionella		10,736
4-10-68	Cyclo-Steph	1,544	Asterionella		3,104
4-16-68	Melosira	1,386	Ankistrodesmus		3,806
4-24-68	Melosira	2,156	Cyclo-Steph	Asterionella	7,480
4-30-68	Melosira	473	Cyclo-Steph	Ankistrodesmus	1,265
5-					
5-14-68	Cyclo-Steph	660	Actinastrum		1,628
5-21-68	Melosira	260	Unidentified Pennate Diatom		940
5-28-68	Scenedesmus	352	Cyclo-Steph		1,012
6-04-68	Scenedesmus	60	Phacus		420
6-11-68	Phacus	176	Cryptomonas		308
6-19-68	Unidentified Filament. Green	90	Cyclo-Steph		210
6-25-68	Scenedesmus	60	Ankistrodesmus		240
7-02-68	Ankistrodesmus	60	Coelastrum		340
7-10-68	Cyclo-Steph	20	Oocystis		100
7-16-68	Unidentified Filament. Green	572	Cryptomonas		1,496
7-23-68	Unidentified Filament. Green	300	Oocystis		420
7-31-68	Unidentified Filament. Green	44	Anacystis		242
8-09-68	Sphaerocystis	60	Cryptomonas		240
8-13-68	Cyclo-Steph	280	Cryptomonas		900
8-20-68	Oocystis	20	Anabaena		90
9-3-68	Aphanizomenon	160	Pediastrum		620
9-10-68	Staurastrum	90	Oocystis		198
9-17-68	Anacystis	100	Staurastrum		340
9-23-68	Staurastrum	144	Oocystis		414

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station G-33-03

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml.
10-1-68	Staurostrum	286	176	154	44
10-15-68	Staurostrum	45	27	27	18
10-22-68	Staurostrum	45	36	18	9
10-29-68	Staurostrum	374	154	132	66
11-5-68	Unident.	48	36	12	132
	Green Coccoid				
11-14-68	Cyclo-Steph	55	22	22	143
11-19-68	Staurostrum	96	60	48	341
12-3-68	Cyclo-Steph	108	27	18	189
12-10-68	Cyclo-Steph	72	18	18	180
12-17-68	Cyclo-Steph	198	36	18	270
12-24-68	Cyclo-Steph	96	48	48	264
	Unident.				
	Diatom Pennate				
12-31-68	Cyclo-Steph	22	22	11	121

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station H-36-05

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
5-7-68	Cyclo-Steph*	Asterionella	Melosira		1,034
3-12-68	Cyclo-Steph	Asterionella	Ankistrodesmus		3,168
3-19-68	Cyclo-Steph	Asterionella	Ankistrodesmus		3,168
3-26-68	Cyclo-Steph	Asterionella	Scenedesmus		1,914
4-2-68	Cyclo-Steph	Ankistrodesmus	Asterionella	Unidentified Coccolid Green	14,476
4-10-68	Cyclo-Steph	Ankistrodesmus	Melosira		3,542
4-15-68	Cyclo-Steph	Ankistrodesmus	Melosira		3,960
4-23-68	Melosira	Ankistrodesmus	Cyclo-Steph	Tetrastrum	1,386
4-29-68	No sample				
5-7-68	Melosira	Ankistrodesmus	Cyclo-Steph	Scenedesmus	2,398
5-14-68	Melosira	Cyclo-Steph	Ankistrodesmus		737
5-21-68	Scenedesmus	Cyclo-Steph	Melosira		396
5-27-68	Cyclo-Steph	Melosira	Scenedesmus	Fragilaria	1,738
6-04-68	Cryptomonas	Trachelomonas	Scenedesmus		330
6-10-68	Fragilaria	Oocystis	Scenedesmus		60
6-18-68	Melosira	Phacus	Unidentified Pennate Diatom		66
6-20-68	Unidentified Filament. Green	Cyclo-Steph	Oocystis		80
7-02-68	Ankistrodesmus	Unidentified Coccolid Green			40
7-09-68	Oocystis	Phacus	Staurostrum		180
7-16-68	Cryptomonas	Phacus	Unidentified Filament. Green		880
7-22-68	Ceratium	Unidentified Filament. Green	Oocystis		240
7-30-68	Cryptomonas	Ceratium	Pediastrum		420
8-06-68	Unidentified Filament. Green	Oocystis	Staurostrum		520
8-09-68	Unidentified Filament. Green	Cyclo-Steph	Melosira		480
8-13-68	Anabaena	Oocystis	Staurostrum		480
8-19-68	Anabaena	Anacystis	Cryptomonas		520
8-27-68	Anacystis	Aphanizomenon	Cyclo-Steph		550
9-3-68	Anacystis	Unidentified	Tabellaria		1,340
9-10-68	Oocystis	Oedogonium	Trachelomonas	Lagerheimia	198
9-16-68	Phacotus	Ceratium	Pediastrum	Pediastrum	180
9-30-68	Staurostrum	Cyclo-Steph	Pediastrum	Fragilaria	192
* Cyclo-Steph = Cyclostephanos					

TABLE 8 (Concluded)

DOMINANT PHYTOPLANKTON

Station H-36-05

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-8-68	Staurastrum	84	Trachelomonas	48	204
10-14-68	Staurastrum	176	Schroederia	22	341
10-22-68	Staurastrum	36	Synedra	11	108
10-28-68	Cyclo-Steph	48	Fragilaria	12	156
11-4-68	Staurastrum	54	Cyclo-Steph	9	81
11-12-68	Phacus	56	Ankistrodesmus	42	350
11-18-68	Cyclo-Steph	36	Ankistrodesmus	27	189
11-26-68	Cyclo-Steph	110	Unident.	22	176
			Diatom Pennate		
12-2-68	Cyclo-Steph	90	Aphanizomenon	45	270
12-10-68	Cyclo-Steph	132	Melosira	66	528
12-17-68	Cyclo-Steph	126	Melosira	36	324
12-24-68	Cyclo-Steph	165	Unident.	30	315
			Diatoms Pennate		
12-31-68	Melosira	90	Cyclo-Steph	54	270
			Unident.		
			Diatom Pennate		
			Scenedesmus	18	

LIST OF ABBREVIATIONS FOR DATA COMPILATION

Abbreviations are used in this report for tabulated data according to the following list:

Units

mg/l - milligrams per liter
umhos/cm - micromhos per centimeter

Chemistry

Ag - silver in mg/l
Alk - alkalinity in mg/l CaCO_3
Ar - arsenic in mg/l
Cd - cadmium in mg/l
Cl - chloride in mg/l
Cl Dem. - chlorine demand in mg/l
CN - cyanide in mg/l
Cr - chromium in mg/l
Cu - copper in mg/l
COD - chemical oxygen demand in mg/l
CON - conductivity in umhos/cm at 25°C
DO - dissolved oxygen in mg/l
Fe - iron in mg/l
Hard - hardness in mg/l as CaCO_3
Mn - manganese in mg/l
 $\text{NH}_3\text{-N}$ - ammonia nitrogen in mg/l
 $\text{NO}_3\text{-N}$ - nitrate nitrogen in mg/l
Org-N - organic nitrogen in mg/l
pH - hydrogen ion concentration
 SiO_2 - silica in mg/l
 SO_4 - sulfate in mg/l
 SP^4 - soluble phosphorus in mg/l
TP - total phosphorus in mg/l
T - temperature in degrees Centigrade
TDS - total dissolved solids in mg/l
TB - turbidity in mg/l SiO_2
TO - threshold odor

Biology

Am - Amphipoda in organisms per m^2
Is - Isopoda in organisms per m^2
Pr - Prosobranchia in organisms per m^2
Pul - Pulmonata in organisms per m^2
Hir - Hirudinea in organisms per m^2
Ol - Oligochaeta in organisms per m^2
Ne - Nematoda in organisms per m^2
Tur - Turbellaria in organisms per m^2
Un - Unionidae in organisms per m^2

Sph - Sphaeriidae in organisms per m²
Ch - Chironomidae in organisms per m²
Eph - Ephemeroptera in organisms per m²
Tri - Tricoptera in organisms per m²
Chloro - Chlorophyll in mg/m³
Ses - Seston in mg/m³
Blue-green, green, flagellates, and diatoms given in number of
organisms per ml.
PC - plankton count
x - qualitative only

Microbiology

Fec. Coll. - fecal coliform per 100 ml
T. Coll. - total coliform per 100 ml
SPC - standard plate count per milliliter